

March 8, 2007
File No. 41.0161318.00 Task 1600

Mr. Joseph Cotter
i.park Edgewater, LLC
485 West Putnam Avenue
Greenwich, Connecticut 06830



Re: DNAPL Recovery Test
i.park Edgewater
45 River Road, Edgewater, New Jersey 07020

Dear Mr. Cotter:

GZA GeoEnvironmental, Inc. (GZA) is pleased to provide this report on the DNAPL recovery test conducted at the Site referenced above in December 2006. Our consulting services were conducted in accordance with the scope of work detailed in our proposal to i.park Edgewater, LLC (i.park) dated December 1, 2006.

440 Ninth Avenue
18th Floor
New York, NY 10001
212-594-8140
Fax: 212-279-8180
www.gza.com

Background

Non-aqueous phase liquid (NAPL) has been found on the northern portion of the Site in monitoring well MW-107. 0.87 gallons of NAPL were detected in this well in November and 2005. In order to assess whether the NAPL was recoverable or whether it would return after evacuation, GZA pumped out the NAPL and recorded its recovery rate.

Field Activities

The NAPL recovery test was performed by GZA staff on December 18, 2006. Prior to pumping the NAPL from the well, GZA gauged the depth to water, depth to NAPL, and depth to bottom using an oil-water interface probe. A peristaltic pump with HDPE tubing was used to remove NAPL from MW-107 at low flow rates. The intake portion of the tubing was located at the bottom of the NAPL layer and the flow rate was regulated to minimize drawdown in the well. Water levels and depth to NAPL measurements were recorded approximately every five minutes. All fluids were pumped to a 55-gallon drum for subsequent disposal. NAPL was pumped from the well until no product was detected with the oil-water interface probe and there was no visual evidence of NAPL in the pump tubing. After the NAPL removal, the pump was stopped and depth to water and depth to product measurements were taken approximately every 10 to 15 minutes. Once depth to product measurements stabilized, the NAPL was again removed from the well. This procedure was repeated until no NAPL returned to the well. After the second removal process, depth to water and depth to product measurements were continued for the remainder of the day and no NAPL returned to the well. In addition, no NAPL was detected during subsequent measurements taken three and eight days later. Measurements are presented in **Table 1**.

Results and Conclusions

The initial NAPL volume in monitoring well MW-107 was 0.077 gallons. The product was pumped from the well over a period of approximately 1.5 hours. During the first 13 minutes of recovery, 0.45 feet of NAPL was measured in the well. Product thickness measurements remained stable to within ± 0.06 feet over the next hour. The NAPL was again removed from



the well over a period of ten minutes and no product was detected in the well for the remainder for the work day (approximately four hours). Additionally, no product was detected in monitoring well MW-107 during gauging events conducted three and eight days later. Approximately one gallon of NAPL, which consisted of an oil-water mixture, was removed from the well.



Based on the above observations, measurable NAPL has not returned to monitoring well MW-107. In addition, no NAPL has been detected in the other adjacent monitoring well (MW-107A) or in MW-122A located 50 feet to the south. In addition, dense NAPL has not been detected in any of the other wells onsite. This suggests that the NAPL maybe largely residual in nature (i.e., not present as free product) and/or may not be feasibly recoverable. GZA recommends continued monthly monitoring of MW-107 to further evaluate the product recovery rate, if any.

We trust that this information satisfies your present needs. Should you need any additional information, please do not hesitate to call us at (212) 594-8140.

Very truly yours,
GZA GEOENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "M. Hayes".

Meredith K. Hayes
Assistant Project Manager

A handwritten signature in black ink, appearing to read "David Winslow".

David Winslow, Ph.D., P.G.
Senior Project Manager

A handwritten signature in black ink, appearing to read "M. Shaw".

Michal M. Shaw, L.S.P.
Principal

Attachment: Table 1- DNAPL Recovery Test Results

Table 1
DNAPL Recovery Test
i.park Edgewater
45 River Road
Edgewater, New Jersey

41.0161318.00 Task 1600
DNAPL Recovery Test

DATE	Time	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Pumping/Recovery
12/18/06	8:30	3.16	18.67	3.45	Pumping
12/18/06	9:39	3.16	18.61	3.51	Pumping
12/18/06	9:43	3.17	19.37	2.75	Pumping
12/18/06	9:48	3.17	20.68	1.44	Pumping
12/18/06	9:54	3.17	20.69	1.43	Pumping
12/18/06	10:02	3.17	ND	ND	Recovery
12/18/06	10:05	3.17	ND	ND	Recovery
12/18/06	10:18	3.17	21.67	0.45	Recovery
12/18/06	10:21	3.17	21.70	0.42	Recovery
12/18/06	10:27	3.17	21.69	0.43	Recovery
12/18/06	10:35	3.17	21.64	0.48	Recovery
12/18/06	10:45	3.17	21.61	0.51	Recovery
12/18/06	10:53	3.17	21.61	0.51	Recovery
12/18/06	11:09	3.17	21.63	0.49	Recovery
12/18/06	11:21	3.17	21.61	0.51	Recovery
12/18/06	11:24	3.17	ND	ND	Pumping
12/18/06	11:38	3.13	ND	ND	Recovery
12/18/06	11:52	3.16	ND	ND	Recovery
12/18/06	12:15	3.16	ND	ND	Recovery
12/18/06	12:30	3.15	ND	ND	Recovery
12/18/06	12:45	3.15	ND	ND	Recovery
12/18/06	13:00	3.16	ND	ND	Recovery
12/18/06	13:15	3.15	ND	ND	Recovery
12/18/06	13:30	3.15	ND	ND	Recovery
12/18/06	13:45	3.15	ND	ND	Recovery
12/18/06	14:00	3.14	ND	ND	Recovery
12/18/06	14:15	3.15	ND	ND	Recovery
12/18/06	14:30	3.16	ND	ND	Recovery
12/18/06	14:45	3.16	ND	ND	Recovery
12/18/06	15:00	3.15	ND	ND	Recovery
12/18/06	15:15	3.15	ND	ND	Recovery
12/18/06	15:30	3.14	ND	ND	Recovery
12/21/06	---	3.23	ND	ND	Recovery
12/26/06	---	2.19	ND	ND	Recovery

Notes:

1. DTW- Depth to water.
2. DTP- Depth to product.
3. ND- Not detected.

7:26E - APPENDIX D - Historic Fill Database Summary Table

APPENDIX D
Historic Fill Database
Summary Table

	Minimum (ppm) ¹	Maximum (ppm) ¹	Avg (ppm) ¹	Number of Samples	Number > URU CDCSCC ²	% > URU CDCSCC ²	Number > RU CDCSCC ²	% > RU CDCSCC
B(a)A ³	0.03	160.0	1.37	441	126	29	33	7
B(a)P ³	0.02	120.0	1.89	431	146	34	146	34
B(b)F ³	0.02	110.0	1.91	426	118	28	39	9
B(k)F ³	0.02	93.0	1.79	412	101	25	26	6
I(1)P ³	0.02	67.0	1.41	397	70	18	18	5
D(a)A ³	0.01	25.0	1.24	286	78	27	78	27
Arsenic	0.05	1098	13.2	369	35	9	35	9
Be ³	0.01	79.7	1.23	213	21	10	21	10
Cadmium	0.02	510	11.1	236	147	62	5	2
Lead	0.28	10700	574	538	259	48	119	22
Zinc	2.45	10900	575	197	80	4	8	4

¹ ppm = parts per million

² URU = Unrestricted Use, RU = Restricted Use, CDCSCC = Current Direct Contact Soil Cleanup Criteria

³ B(a)A = Benzo(a)anthracene, B(a)P = Benzo(a)pyrene, B(b)F = Benzo(b)fluorene, B(k)F = benzo(k)fluoranthene, I(1)P = Indeno(1,2,3-cd)pyrene, D(a)A = Dibenzo(a,h)anthracene, Be = Beryllium

130516

Environmental Industrial Services Corp. of New Jersey Bill of Lading

BR015751

Original: Not Negotiable
Yellow: Shipping Order Copy
Pink: Memorandum

Shipper No.:
Date: 11-14-06

TO:		FROM:	
Consignee <u>MXI</u>	Shipper <u>ENVICORP.</u>		
Street <u>26319 OLD TOWN RD.</u>	Street <u>45 RIVER RD.</u>		
Destination <u>ARLINGTON VA.</u>	Origin <u>EDGEWATER NJ</u>		
Zip Code _____	Zip Code _____		

Date: Job # 1862

Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Quantity	Units
8 PM	NON HAZARDOUS 8011 UNIT/NJ-001-B12		POUNDS
14 PM	NON HAZARDOUS WATER UNIT/NJ-002-B5	2200	

Hand Spt
11-14-06

② MAXIMUM EXPRESS 2N1
11/20/06

SHIPPER	CARRIER	DATE
SIGNATURE <u>W. J. EVER</u> as agent for park Edgewater	SIGNATURE <u>ELSCA-10</u> <u>Michael</u>	

JOB # 102,2
 CUSTOMER Ever - G2A
 JOB LOCATION 45 River Rd
edge "AK" NJ



900 Port Reading Ave., B-2
 Port Reading, NJ 07064
 (732) 969-4888 • Fax: (732) 969-9599

T & M No.: _____
 Day: Tue
 Date: 11/14/66

PERSONNEL					PER DIEM					
NAMES	CODE	START	FINISH	ST	RATE	OT	RATE	RATE	QTY	TOTAL
M. Battaglia	FR	0700	3:30							
TOTAL										

MATERIALS			
TYPE	QTY	RATE	TOTAL
TOTAL			

EQUIPMENT / TRUCKS									
UNIT TYPE	QTY	START	FINISH	HR	RATE		DAILY	TRANS	TOTAL
J-25		0700	3:30						
TOTAL									

PPE			
TYPE	QTY	RATE	TOTAL
TOTAL			

SUBCONTRACTOR	QTY	START	FINISH	WORK DESCRIPTION
TOTAL				

DISPOSAL				
QTY	DESCRIPTION	MANIFEST#	PRICING	TOTAL
TOTAL				

DESCRIPTION OF WORK PERFORMED: Picked up 22 drums from work area
2 trips 11 on each trip

CUSTOMER SIGNATURE: _____ CUSTOMER COMMENTS: _____

JOB # NS-1862.2
 CUSTOMER QZA
 JOB LOCATION WATERVILLE



900 Port Reading Ave., B-2
 Port Reading, NJ 07064
 (732) 969-4888 • Fax: (732) 969-9599

T & M No.: _____
 Day: mon
 Date: 10-1-07

PERSONNEL					PER DIEM					
NAMES	CODE	START	FINISH	ST	RATE	OT	RATE	RATE	QTY	TOTAL
P. R. HADWIN	ED	0700	1500							
TOTAL										

MATERIALS			
TYPE	QTY	RATE	TOTAL
TOTAL			

EQUIPMENT / TRUCKS									
UNIT TYPE	QTY	START	FINISH	HR	RATE		DAILY	TRANS	TOTAL
J-4									
TOTAL									


PPE			
TYPE	QTY	RATE	TOTAL
TOTAL			

SUBCONTRACTOR	QTY	START	FINISH	WORK DESCRIPTION
TOTAL				

DISPOSAL				
QTY	DESCRIPTION	MANIFEST#	PRICING	TOTAL
5	NON HAZ	BOL	MAR	
TOTAL				

DESCRIPTION OF WORK PERFORMED: TRANSPORT & DISPOSE OF 4 LIQUID DRUMS.
1 SOLID.

CUSTOMER SIGNATURE: _____ CUSTOMER COMMENTS: _____

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT 1. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-95 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. Summit		BORING LOCATION						
FOREMAN Travis		GROUND SURFACE ELEV.					DATUM	
GZA ENGINEER A. Hough		DATE START 6/8/07					DATE END 6/8/07	
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2	1	4/1.4	1-5	Concrete slab approx. 1.2' (air rig used)				
				S1: Black, fine to coarse Sand, some fine Gravel, little Silt.			0	
							0	
							0	
4								
6	2	4/3	5-9	S2: Top 2": Brown to black, fine to coarse, SAND, some fine Gravel, little Silt, trace Organics (pieces of wood). Bottom 2": Black, CLAY, some Silt, little fine Gravel.				
							0	
							0	
							0	
8								
10	3	4/2.8	9-13	S3: Top 1.4": Black, fine to coarse, SAND and fine GRAVEL. Bottom 1.4": Gray, Silty CLAY, little fine Gravel (at approx. 0.7": some pink, fine to medium sand; at approx 1": some yellow Organics (pieces of wood, slight sheen).				
							0	
							0	
							0	
12								
14	4	4/3.4	13-17	S4: Top 1.2": Black, fine to coarse, SAND and fine GRAVEL. Bottom 2.2": Gray, Silty CLAY and ORGANICS (roots), little fine Gravel.				
							0	
							0	
							0	
16								
End of Boring 17'								
REMARKS:								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-95		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-96	
				I-Park Edgewater		SHEET 1 of 1	
				45 River Road		FILE NO. 41.0161318.00	
		Edgewater, New Jersey		CHKD BY DW			

BORING CO. <u>Summit Drilling</u>	BORING LOCATION <u>See Exploration Location Plan</u>		
FOREMAN <u>Travis</u>	GROUND SURFACE ELEV. _____	DATUM _____	
GZA ENGINEER <u>D. Salemo</u>	DATE START <u>10/26/06</u>	DATE END <u>10/26/06</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE		DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC						
2	1	48/24	0-4	vacuum excavated to 4' bgs	FILL		0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
4							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
6	2	42/24	4-8	Black, f-m SAND, some Silt.			0.0 ppm	1
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
8				EOB @ 8'.				
10	3							
12								
14	4							
16								

REMARKS:

1. Sample for TPH and PAH taken at 4-4.5'.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-96

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I park Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA - 98 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY: DW																
BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/13/06</u> DATE END <u>10/13/06</u>																		
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																		
DEPTH	CASING BLOWS	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING														
		SPOON NO	PEN/REC	DEPTH (FT)					BLOWS/6"													
2.0		S1	24/14	0-2	11	Black f-m SAND, little Silt (2" concrete in bottom and middle, wood and trace brick in bottom).		FILL	0													
					14				0													
					20				0													
					25				0													
4.0		S2	9/8	2-4	25	Gray f-m SAND, some Silt, some f Gravel. HSA to 4'.	1.		0													
					50/3				0													
6.0		S3	24/16	4-6	16	Brown m-c SAND, some Silt, trace f Gravel (trace brick and wood).	2.		0													
					18				0													
					20				0													
					37																	
8.0						EOB @ 6'.																
10.0																						
12.0																						
14.0																						

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	REMARKS: 1. Sample taken at 3.5-4' at 1420 for TPH, PAH analysis. 2. Water table at 4-4.5'.
0-4 VERY LOOSE	<2 VERY SOFT	
4-10 LOOSE	2-4 SOFT	
10-30 MEDIUM DENSE	4-8 M. STIFF	
30-50 DENSE	8-15 STIFF	
>50 VERY DENSE	15-30 V. STIFF	
	>30 HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA 98

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-99	
				J.park Edgewater		SHEET 1 of 1	
				45 River Road		FILE NO. 41.0161318.00	
ENGINEERS AND SCIENTISTS				Edgewater, New Jersey		CHKD BY DW	

BORING CO. <u>Summit Drilling</u>				BORING LOCATION <u>See Exploration Location Plan</u>			
FOREMAN <u>Denis Crayon</u>				GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				DATE START <u>10/13/06</u> DATE END <u>10/13/06</u>			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)
				DEPTH (FT)	BLOWS/6"				
2.0		S1	24/17	0-2	4	Brown f-m SAND, little Silt, trace f Gravel (organic material, brick layer at 12-14").		FILL	0
					8				0
					25				0
					22				
4.0		S2	24/18	2-4	23	Black f-m SAND, some Silt, trace f Gravel (slight odor, solid wood at 40-42").			0
					33				0
					60				0
					65				
6.0		S3	24/6	4-6		Brown f-m SAND, little Silt, trace f Gravel (organic material).	1 2		0
8.0						EOB @ 6'.			
10.0									
12.0									
14.0									

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Sample taken at 4-4.5' at 1330 for TPH, PAH. 2. Water table at 4.5-5'.
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30		HARD

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE	
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BORING NO. GZA-99

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT 1. park Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA-100A SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW							
BORING CO. <u>Summit Drilling</u> FOREMAN <u>John Murtha</u> GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/12/06</u> DATE END <u>10/12/06</u>									
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%; height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>									
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)				
2.0		S1	24/14	0-2	14	Brown f-m SAND, trace f Gravel (little concrete top 2").			0				
					7				0				
					7				0				
					3								
4.0		S2	24/0	2-4	2	No recovery		FILL					
					1								
					1								
					1								
6.0		S3	24/5	4-6	1	Black f GRAVEL (organic material and wood fibers).	1		0				
					1								
					1								
					1								
8.0						EOB @ 6'.							
10.0													
12.0													
14.0													
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Water table at 4-4.5' 2. Moved borehole due to low recovery.									
0-4	VERY LOOSE	<2	VERY SOFT										
4-10	LOOSE	2-4	SOFT										
10-30	MEDIUM DENSE	4-8	M. STIFF										
30-50	DENSE	8-15	STIFF										
>50	VERY DENSE	15-30	V. STIFF										
				>30	HARD								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE													
BORING NO. GZA-100A													

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-100B	
				Ipark Edgewater		SHEET 1 of 1	
				45 River Road		FILE NO. 41.0161318.00	
		Edgewater, New Jersey		CHKD BY DW			

BORING CO. <u>Summit Drilling</u>				BORING LOCATION <u>See Exploration Location Plan</u>			
FOREMAN <u>John Murtha</u>				GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				DATE START <u>10/12/06</u> DATE END <u>10/12/06</u>			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)
				DEPTH (FT)	BLOWS/6"				
3.0						HSA to 3'			
5.0		S1	24/	3-5	5	Brown f-m SAND, little Silt (organic material, concrete top		FILL	0
				4	2").		0		
				6			0		
				6					
7.0		S2	24/7	5-7	2	Brown-black f-m SAND, little Silt (organic material	1.		0
				2	and wood).	2.	0		
				5			0		
				5					
9.0		S3	24/9	7-9	2	Brown-black f-c SAND (wood and organic material,			0
				2	product staining, and slight odor).		0		
				2					
				2					
11.0		S4	24/15	9-11	2	Black f-c SAND, little f Gravel (obvious odor),			124
				1	changing after 8" to brown-black PEAT.		0		
				1			0		
				1					
13.0						EOB @ 11'.			
15.0									

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Sample taken at 3.5-4' at 0905 for TPH 2. Water table at 4-4.5'. 3. Sample taken at 9-9.5' at 0930 for TPH, PAH.
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. **GZA-100B**

GZA GEOENVIRONMENTAL OF NEW YORK
 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
 1.park Edgewater
 45 River Road
 Edgewater, New Jersey

REPORT OF BORING NO. GZA-101A

SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY DW

BORING CO. Summit Drilling
FOREMAN John Murtha
GZA ENG. Meredith Hayes and Danielle Salemo

BORING LOCATION See Exploration Location Plan
GROUND SURFACE ELEV. **DATUM**
DATE START 10/12/06 **DATE END** 10/12/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF
 A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb
 HAMMER FALLING 24 IN.

CASING SIZE: OTHER 3 3/4" HSA

GROUNDWATER READINGS
DATE **TIME** **WATER** **CASING** **STABILIZATION TIME**

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BIRMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)
2.0		S1	24/20	0-2	12	Light-dark brown, f-m SAND, changing after 13" to brown			0
					14	f SAND, little Silt (2" concrete in middle of spoon).			0
					12			FILL	0
					12				
4.0		S2	0/0	2-4		HSA to 7'.			
6.0									
8.0						EOB @ 7' (refusal on concrete).	1.		
10.0									
12.0									
14.0									

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY	
0-4	VERY LOOSE	<2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	VERY DENSE	15-30	V. STIFF
		>30	HARD

REMARKS:


1. Moved boring ~5'.

NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE



BORING NO. GZA-101A

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001						PROJECT I.park Edgewater 45 River Road		REPORT OF BORING NO. GZA-101B SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW			
ENGINEERS AND SCIENTISTS						Edgewater, New Jersey					
BORING CO. Summit Drilling FOREMAN John Murtha GZA ENG. Meredith Hayes and Danielle Salerno						BORING LOCATION See Exploration Location Plan GROUND SURFACE ELEV. _____ DATUM _____ DATE START 10/12/06 DATE END 10/12/06					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN						GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN.											
CASING SIZE: OTHER 3 3/4" HSA											
DEPTH CASING BLOWS SPOON NO PEN/REC SAMPLE DEPTH (FT) BLOWS/F'						SAMPLE DESCRIPTION BURMISTER CLASSIFICATION		R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)	
3.0						HSA to 3'					
5.0						Brown-black m-c SAND, little silt (concrete in bottom 2" of spoon).			FILL	0 0	
7.0						Brown f-m SAND, little silt, little f Gravel (trace wood).		1.		0 0 0	
9.0						Brown m-c SAND, some silt.		2.		0 0 0	
11.0						Brown-black f-m SAND, some silt (organic material, geotextile fabric with hard pitch material in bottom 2").				0 0	
13.0						Black m-c SAND, little f Gravel (organic material), changing after 8" to brown SILTY CLAY.			SILTY CLAY	0 0 0	
EOB @ 13'.											
GRANULAR SOILS BLOWS/FT DENSITY						COHESIVE SOILS BLOWS/FT DENSITY		REMARKS:			
0-4 VERY LOOSE <2 VERY SOFT						1. Sample taken at 6.5-7' at 11:00 for TPH, PAH.					
4-10 LOOSE 2-4 SOFT						1. Water table observed at 7' bgs.					
10-30 MEDIUM DENSE 4-8 M. STIFF											
30-50 DENSE 8-15 STIFF											
>50 VERY DENSE 15-30 V. STIFF											
>30 HARD											
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE											
GZA						BORING NO. GZA-101B					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-102 SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY						
ENGINEERS AND SCIENTISTS												
BORING CO.		Summit		BORING LOCATION								
FOREMAN		Travis		GROUND SURFACE ELEV.		DATUM						
GZA ENGINEER		A. Hough		DATE START 8/8/07		DATE END 8/8/07						
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.												
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K				
	SAMPLE NO	PEN/REC	DEPTH (FT)									
2	1			Concrete slab approx. 1.4' (air rig used)								
		4/1	1.4 - 5.4	S1: Brown to dark brown, fine to coarse SAND, little Silt, some fine Gravel.					0			
									0			
4												
6		4/2	5.4 - 9.4	S2: Brown to black, fine to coarse SAND, some fine Gravel, little Silt.								
8	2							0				
								0				
								0				
								0				
10		4/4	9.4 - 13.4	Dark brown fine coarse SAND, some fine Gravel, little Silt (sheen) (wet at 8.3).				0				
								0				
								0				
								0				
12		3							0			
									0			
									0			
									0			
14	4/3.5		13.4 - 17.4	Top 2.4': Black fine to coarse SAND, some fine Gravel, little Silt (sheen). Bottom 0.7': Gray, Silty CLAY, some Organics (roots).				0				
								0				
								0				
								0				
16	4								0			
									0			
									0			
									0			
								0				
								0				
								0				
								0				
								0				
								0				
								0				
REMARKS:												
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.												
						BORING NO. GZA-102						

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
1. park Edgewater
45 River Road
Edgewater New Jersey

REPORT OF BORING NO. GZA-103
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY DW

BORING CO. Summit Drilling BORING LOCATION See Exploration Location Plan
FOREMAN Travis GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER D. Salerno DATE START 10/26/06 DATE END 10/28/06

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING (PPM)	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	48/32	0-4	Black f-c SAND, some Silt (trace hard pitch, trace brick).	FILL		0	1
							0	
							0	
							0	
							0	
							0	
							0	
4				EOB @ 4'.				
6								
8								
10								
12								
14								
16								

REMARKS:

1. Sample taken at 3-4' at 0950 for PP+40.

NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-103

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. <u>GZA-104</u>																																																																																																																																																																							
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				45 River Road		FILE NO. <u>41.0161318.00</u>																																																																																																																																																																							
ENGINEERS AND SCIENTISTS				Edgewater, New Jersey		CHAD BY <u>DW</u>																																																																																																																																																																							
BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/16/06</u> DATE END <u>10/16/06</u>																																																																																																																																																																									
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HAS</u>				GROUNDWATER READINGS																																																																																																																																																																									
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DEPTH	CASING BLOWS	SPOON NO	PEN/REC					SAMPLE						SAMPLE DESCRIPTION BUR MISTER CLASSIFICATION	R K				STRATUM DESCRIPTION	FIELD TESTING (PPM)																																																																																																																																																									
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-105A			
				I.park Edgewater		SHEET 1 of 1			
				45 River Road		FILE NO. 41.0181318.00			
ENGINEERS AND SCIENTISTS				Edgewater, New Jersey		CHKD BY DW			
BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/16/06</u> DATE END <u>10/16/06</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: OTHER 3 3/4" HSA				GROUNDWATER READINGS					
				DATE _____ TIME _____ WATER _____ CASING _____ STABILIZATION TIME _____ _____ _____ _____					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/8"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)
2.0		S1	6/0	0-2	4	No recovery			
					50/0	HSA to 4'			
4.0									
6.0						EOB @ 4' (refusal on concrete),	1.		
8.0									
10.0									
12.0									
14.0									
GRANULAR SOILS BLOWS/FT DENSITY			COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Moved borehole.				
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
			>30	HARD					
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT 1.park Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO: GZA-105B SHEET: 1 of 1 FILE NO: 41.0161318.00 CHKD BY: DW																					
				BORING CO. <u>Summit Drilling</u>		BORING LOCATION <u>See Exploration Location Plan</u>																					
				FOREMAN <u>John Murtha</u>		GROUND SURFACE ELEV. _____ DATUM _____																					
GZA ENG. <u>Meredith Hayes</u>		DATE START <u>10/18/06</u> DATE END <u>10/18/06</u>																									
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				DATE	TIME	WATER	CASING	STABILIZATION TIME															
				DATE	TIME	WATER	CASING	STABILIZATION TIME																			
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING (PPM)																		
2.0		S1	24/12	0-2	7	Brown-black SAND, some f Gravel, little Silt (hard pith material throughout, strong odor).			0																		
					4				0																		
					3																						
					4																						
4.0		S2	24/15	2-4	2	Black f-c SAND, some f Gravel, little Silt.		FILL	0																		
					2				0																		
					2				0																		
					2																						
6.0		S3	24/6	4-6	2	Black f-c SAND, little Silt.	1		0																		
					3																						
					6																						
					4																						
8.0						EOB @ 6'.																					
10.0																											
12.0																											
14.0																											
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Sample taken at 4.5-5' at 0810 for benzene.																							
0-4	VERY LOOSE	<2	VERY SOFT																								
4-10	LOOSE	2-4	SOFT																								
10-30	MEDIUM DENSE	4-8	M. STIFF																								
30-50	DENSE	8-15	STIFF																								
>50	VERY DENSE	15-30	V. STIFF																								
		>30	HARD																								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE																											
								BORING NO. GZA-105B																			

GZA GEOENVIRONMENTAL INC. 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-108A			
				I.park Edgewater		SHEET 1 of 1			
ENGINEERS AND SCIENTISTS				45 River Road		FILE NO. 41.0181318.00			
				Edgewater, New Jersey		CHKD BY DW			
BORING CO. Summit Drilling				BORING LOCATION See Exploration Location Plan					
FOREMAN Denis Crayon				GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. Danielle Salerno				DATE START 10/13/06		DATE END 10/13/06			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: OTHER 3 3/4" HSA				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING	SAMPLE			SAMPLE DESCRIPTION	R	STRATUM	FIELD	
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	K	DESCRIPTION	TESTING	
2.0		S1	24/15	0-2	6	Brown f-m SAND, little Silt, trace f Gravel (organic material, bottom 4" brick)		0	
				10	0				
				30	0				
				60					
4.0		S2	9/9	2-4	20	Brown f-m SAND, some Silt (concrete in bottom 4.5" of spoon). HSA to 4'.	1	FILL	0
				50/3	0				
6.0		S3	24/5	4-6	60	Brown f-m SAND, some Silt (concrete in bottom 4" of spoon).			0
				18					
				16					
				5					
8.0						EOB @ 6'.			
10.0									
12.0									
14.0									
GRANULAR SOILS		COHESIVE SOILS		REMARKS: 1. Sample taken at 3-4' at 15:25 for TPH.					
BLOWS/FT DENSITY		BLOWS/FT DENSITY							
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES:									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.									
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING NO. GZA-108A			

GZA GEOENVIRONMENTAL INC. 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT 1.park Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA-106B SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW																					
ENGINEERS AND SCIENTISTS BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/17/06</u> DATE END <u>10/17/06</u>																							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				DATE	TIME	WATER	CASING	STABILIZATION TIME															
				DATE	TIME	WATER	CASING	STABILIZATION TIME																			
DEPTH	CASING BLOWS	SAMPLE SPOON NO PEN/REC DEPTH (FT) BLOWS/6"		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING																				
2.0		S1																									
4.0		S2	24/18	2-4	17	Brown f-m SAND, some Silt	1	FILL																			
6.0		S3																									
8.0																											
10.0																											
12.0																											
14.0																											
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Sample taken at 3-4' for PP+40.																							
0-4	VERY LOOSE	<2	VERY SOFT																								
4-10	LOOSE	2-4	SOFT																								
10-30	MEDIUM DENSE	4-8	M. STIFF																								
30-50	DENSE	8-15	STIFF																								
>50	VERY DENSE	15-30	V. STIFF	>30	HARD																						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE																											
						BORING NO. GZA-106B																					

GZA GEOENVIRONMENTAL INC. 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. <u>GZA-106C</u>	
				I.park Edgewater		SHEET <u>1 of 1</u>	
				45 River Road		FILE NO. <u>41.0161318.00</u>	
ENGINEERS AND SCIENTISTS				Edgewater, New Jersey		CHKD BY <u>DW</u>	

BORING CO. <u>Summit Drilling</u>				BORING LOCATION <u>See Exploration Location Plan</u>			
FOREMAN <u>Denis Crayon</u>				GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>Danielle Salerno</u>				DATE START <u>10/20/06</u> DATE END <u>10/20/06</u>			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLJT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
2.0		S1				HSA to 4'		FILL	
4.0		S2							
6.0		S3	24/12	4-6		Brown f-m SAND, some Silt (concrete in bottom 4" of spoon).	1		0 0
8.0									
10.0									
12.0									
14.0									

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 1. Sample taken at 4.5-5' for benzene.
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30		HARD

NOTES:	
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.	
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE	

	BORING NO. <u>GZA-106C</u>
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I park Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA-108 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW			
				BORING CO. Summit Drilling		DRILLING RIG		BORING LOCATION See exploration boring location plan.	
				FOREMAN John Murtha		TYPE OF DRILLING HAS		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENG. Meredith Hayes and Danielle Salerno				DATE START 10/20/06		DATE END 10/20/06			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: OTHER 3 3/4" HSA				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
2.0		S1	24/24	0-2	4	Gray SILT (6") then black f-c SAND and hard crushed pitch material, trace Silt.		FILL	0
					4				375
					5				696
					8				674
4.0		S2	24/16	2-4	3	Black f-c SAND, some hard pitch material.	1		21.6
					3				21.6
					4				37.1
					6				37.1
6.0		S3	24/20	4-6	5	Black f-c SAND, some hard pitch material.			0
					5				667
					7				650
					4				650
8.0		S4	24/14	6-8	10	Black m-c SAND, little Silt.			NA
					10				NA
					12				NA
					9				NA
10.0		S5	24/12	8-10	5	Black f-c SAND, little Silt. (Hard pitch material last 4")			NA
					1				NA
					3				NA
					20				NA
12.0		S6	24/6	10-12	4	Black f-c SAND, little Silt, little crushed hard pitch material.			NA
					2				NA
					1				NA
					1				NA
14.0		S7	24/24	12-14	3	Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT.		SILTY CLAY	NA
					1				NA
					1				NA
					2				NA

GRANULAR SOILS BLOWS/FT DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE >50 VERY DENSE		COHESIVE SOILS BLOWS/FT DENSITY <2 VERY SOFT 2-4 SOFT 4-8 M. STIFF 8-15 STIFF 15-30 V. STIFF >30 HARD		REMARKS: 1. End of boring at 14'.
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NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA-108

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I.park Edgewater 45 River Road		REPORT OF BORING NO. GZA-109 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW											
ENGINEERS AND SCIENTISTS				Edgewater, New Jersey													
BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/16/06</u> DATE END <u>10/16/06</u>													
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>													
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING								
2.0		S1	24/13	0-2	3	Brown-black m-c SAND, little Silt, trace f Gravel (brick)			0								
					35				0								
					18												
					12												
4.0		S2	24/10	2-4	5	Black-brown m-c SAND (obvious odor) (Hard pitch material in middle 2").		FILL	0								
					10				0								
					10												
					12												
6.0		S3	24/17	4-6	30	Black m-c SAND, some f Gravel (hard pitch material in top 2").	2 1		0								
					16				0								
					20				0								
					10												
8.0						EOB @ 8".											
10.0																	
12.0																	
14.0																	

GRANULAR SOILS		COHESIVE SOILS		REMARKS: 1. Water table observed at 5-5.5'. 2. Sample taken at 4.5-5' at 11:15 for PP+40, pH, TPH.
BLOWS/FT DENSITY		BLOWS/FT DENSITY		
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. **GZA-109**

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT Lpark Edgewater 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA-110 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW			
BORING CO. <u>Summit Drilling</u> FOREMAN <u>Denis Crayon</u> GZA ENG. <u>Danielle Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/16/06</u> DATE END <u>10/16/06</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____ OTHER 3 3/4" HSA				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/10	0-2	7	Brown m-c SAND, little Silt, trace f Gravel (3" hard pitch material in middle of spoon, concrete in bottom 4" of spoon).		FILL	0
					33				0
					35				
					35				
4.0		S2	23/16	2-4	20	Brown-red f-m SAND, trace f Gravel (bottom 2" hard pitch material).	1, 2		0
					40				0
					45				0
					50/5				
8.0						EOB @ 4'.			
10.0									
12.0									
14.0									
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS: 2. Water table observed at 4-4.5' 1. Sample taken at 3.5-4' at 14:10 for PP+40, pH, TPH					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-110	

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i-Park Edgewater
45 River Road
Edgewater, New Jersey

REPORT OF BORING NO. **GZA-111**
SHEET **1 of 1**
FILE NO. **41.0161318.00**
CHKD BY **DW**

BORING CO. **SUMMIT**
FOREMAN **Travis**
GZA ENGINEER **D.Salemo**

BORING LOCATION **See Boring Location Plan**
GROUND SURFACE ELEV. **n/a** DATUM **n/a**
DATE START **10/26/06** DATE END **7/20/06**

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	48/13	0-4	3" Concrete.	CONCRETE SLAB		0.0 ppm	1
				Brown, f-c SAND, little Silt, trace Gravel.	FILL		0.0 ppm	
							0.0 ppm	
							0.0 ppm	
4							0.0 ppm	
				EOB@4'			0.0 ppm	
6								
8								
10								
12								
14								
16								

REMARKS: 1. Sample for PP+40 taken at 3.5'-4'.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-111

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. <u>GZA - 112</u>			
				Ipark Edgewater 45 River Road Edgewater, New Jersey		SHEET <u>1 of 1</u> FILE NO. <u>41.0161318.00</u> CHKD BY <u>DW</u>			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION <u>See exploration location plan.</u>					
FOREMAN <u>John Murtha</u>		TYPE OF DRILLING <u>HAS</u>		GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. <u>Meredith Hayes and Danielle Salerno</u>				DATE START <u>10/20/06</u>		DATE END <u>10/20/06</u>			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3.3/4" HSA</u>				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/24	0-2	30	Asphalt pavement (Concrete last 2").	1	ASPHALT PAVEMENT	1.4
					15	Brown SILT, little f Sand changing after 8" to black hard pitch material.		FILL	17.3
					15				20.6
					18				4.6
4.0		S2	24/6	2-4	45	Geotextile membrane with black pitch material.			
					60				
					10				
					16				
6.0		S3	24/16	4-6	7	Gray f-c SAND, trace Silt, trace f Gravel.			
					2				
					1				
					1				
8.0		S4	24/2	6-8	3	Gray f-c SAND, trace Silt, trace f Gravel.			
					2				
					3				
					5				
10.0		S5	24/24	8-10	3	Black f-c SAND, little Silt. (Concrete fragments last 2").			
					3				
					7				
					3				
12.0		S6	24/18	10-12	12	Gray f-m SAND, little Silt (bottom 3" black hard pitch material)			
					10				
					9				
					4				
14.0		S7	24/24	12-14	3	Gray f-m SAND and (black hard pitch material top 6") changing to brown SILTY Clay and PEAT.		SILTY CLAY	
					2				
					2				
					3				
GRANULAR SOILS		COHESIVE SOILS		REMARKS: 1. PID not working, rainy day. 2. End of boring at 14'.					
BLOWS/FT DENSITY		BLOWS/FT DENSITY							
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
BORING NO. <u>GZA-112</u>									

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO.																																																																																																	
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN MANUALLY USING A SLEDGEHAMMER CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: OTHER 3 3/4" HSA				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME																																																																																																			
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-115	
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				45 River Road		FILE NO. 41.0161318.00	
ENGINEERS AND SCIENTISTS				Edgewater New Jersey		CHKD BY DW	

BORING CO. <u>Summit Drilling</u>			BORING LOCATION <u>See Exploratory Boring Location Plan</u>				
FOREMAN <u>Denis Crayon</u>			GROUND SURFACE ELEV. _____		DATUM _____		
GZA ENG. <u>Danielle Salemo</u>			DATE START <u>10/19/06</u>		DATE END <u>10/19/06</u>		

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: <u>OTHER 3 3/4" HSA</u>				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
				DEPTH (FT)	BLOWS/6"				
2.0		S1	24/22	0-2	14	Light brown f-m SAND, little Silt changing after 5" to			0
					25	Black f-m SAND, some Silt (hard pitch material,			0
					28	wood, and concrete throughout).			0
					12				0
4.0		S2	7/8	2-4	26	Black f-m SAND, some Silt (glass)	1		0
					50/1	(hard pitch material, less viscous pitch material throughout)			
						HSA to 4'			
						(soft pitch material in drill cuttings)			
6.0		S3	24/17	4-6	26	Hard pitch material in entire spoon with trace fill material.	2		0
					32				0
					24				0
					18				0
8.0		S4	24/15	6-8	17	Gray c SAND.	3	FILL	0
					15				0
					7				0
					5				0
10.0		S5	24/17	8-10	10	Black f-c SAND, little Silt, trace f Gravel (brick, wood, and			0
					9	glass, hard pitch material and geotextile fabric with pitch			0
					6	material throughout).			0
					4				0
12.0		S6	19/7	10-12	7	Black f-c SAND, little Silt, trace f Gravel (brick, wood, and			0
					5	glass, hard pitch material top 2", soft pitch material bottom 3").			0
					22				
					50/1				
14.0						EOB @ 12" (refusal).			

GRANULAR SOILS		COHESIVE SOILS		REMARKS:
BLOWS/FT DENSITY		BLOWS/FT DENSITY		
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. **GZA-115**

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT L park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA 116 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY	
				BORING CO. Summit Drilling		BORING LOCATION See Exploration Boring Location Plan	
				FOREMAN John Murtha		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENG. M. Hayes and D. Salemo		DATE START 10/12/06 DATE END 10/12/06					

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: OTHER 3 3/4" HSA						GROUNDWATER READINGS				
						DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
				DEPTH (FT)	BLOWS/6"				
2.0		S1	24/20	0-2	5	Brown m-c SAND, little f Gravel (concrete, brick)			0
				25	0				
				60	0				
				45					
4.0		S2	24/16	2-4	17	Similar to above			0
				10	0				
				11	0				
				12					
6.0		S3	14/9	4-6	7	Organic material, changing after 2" to Brown m-c SAND, little Silt (concrete)			0
				16	0				
				100/2					
6.0						EOB @ 5.5' (refusal on gravel)			
8.0									
10.0									
12.0									
14.0									

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS:
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE		BORING NO. GZA-116
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GZA GEOENVIRONMENTAL OF NEW YORK
 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

PROJECT
 Lpark Edgewater
 45 River Road
 Edgewater, New Jersey

REPORT OF BORING NO. GZA-118
 SHEET 1 of 1
 FILE NO. 41.0161318.00
 CHKD BY DW

ENGINEERS AND SCIENTISTS

BORING CO. Summit Drilling
 FOREMAN Travis
 GZA ENGINEER D. Salemo

BORING LOCATION See Exploration Location Plan
 GROUND SURFACE ELEV. _____ DATUM _____
 DATE START 10/26/06 DATE END 10/26/06

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	48/20	0-4	Brown, f-c SAND, little Silt, trace f Gravel (brick fragments) changing to black m-c SAND, little Silt (traces of organic material in the last 6").	FILL		0	
							0	
							0	
							0	
							0	
4	2	42/13	4-7.5	Black, f-m SAND and SILT changing to black SILTY CLAY in the last 4" (2" less viscous pitch material at bottom).			0	1
							0	
							26.5	
							26.5	
							26.5	
6	3			Brown f-m SAND and SILT changing after 38" to pitch material (1" of geotextile material with pitch material, 1" of less viscous pitch material, 2" of hard pitch material) changing to brown PEAT bottom 1".			0	
							0	
							0	
							0	
							0	
8	4	48/29		Brown f-m SAND and SILT changing after 38" to pitch material (1" of geotextile material with pitch material, 1" of less viscous pitch material, 2" of hard pitch material) changing to brown PEAT bottom 1".	PEAT		0	2
							0	
							0	
							0	
							0	
10				EOB@12'			0	
							0	
							0	
							0	
							0	
12				EOB@12'			0	
							0	
							0	
							0	
							0	
14				EOB@12'			0	
							0	
							0	
							0	
							0	
16				EOB@12'			0	
							0	
							0	
							0	
							0	

REMARKS: 1. Water table at 3.5'-4'.
 2. Samples for PCB taken at 0'-2', 3.5'-4', and 5'-7'. Sample for benzene taken at 7'-7.5'.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-118

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT 1. park Edgewater		REPORT OF BORING NO. GZA-119	
				45 River Road Edgewater, New Jersey		SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW	
ENGINEERS AND SCIENTISTS							

BORING CO. <u>Summit Drilling</u>		BORING LOCATION <u>See Exploration Location Plan</u>	
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>D. Salerno</u>		DATE START <u>10/26/06</u> DATE END <u>10/26/06</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE		DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC						
2	1	48/12	0-4	Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon).	FILL		0	
							0	
							0	
							0	
							0	
							0	
4	2	48/19	4-8	Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SILT in the last 6" (less viscous pitch material).			0	
							0	
							0	
							26.5	
							26.5	
							26.5	
6	3			Black fill material (sheen, odor, less viscous pitch material).			0	1
							0	
							0	
							0	
							0	
							0	
8	4	48/37		Brown, f-m SAND, some fine Silt, trace fine Gravel changing after 10" to less viscous pitch material changing to brown PEAT in last 4".			0	
							0	
							0	
							0	
							0	
							0	
10				PEAT			0	2
							0	
							0	
							0	
							0	
							0	
12							0	
							0	
							0	
							0	
							0	
							0	
14							0	
							0	
							0	
							0	
							0	
							0	
16							0	
							0	
							0	
							0	
							0	
							0	

REMARKS:

- Sample for benzene taken at 7'-7'5".
- EOB @ 16'.


NOTES:


- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-119

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001			PROJECT I park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-120 SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY																					
ENGINEERS AND SCIENTISTS																										
BORING CO. Summit Drilling FOREMAN John Murtha GZA ENG. M. Hayes			DRILLING RIG TYPE OF DRILLING HSA		BORING LOCATION See Exploration Boring Location Plan GROUND SURFACE ELEV. DATE START 10/17/08 DATE END 10/17/08																					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:			GROUNDWATER READINGS <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				DATE	TIME	WATER	CASING	STABILIZATION TIME															
DATE	TIME	WATER	CASING	STABILIZATION TIME																						
DEPTH	CASING BLOWS	SPOON NO	PENREC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING																	
2.0		S1				1' asphalt																				
			24/18	1-3	30	(Hard pitch material in top 6" of spoon)				0																
					12	(Wood in next 6" of spoon)				0																
					10	(Hard pitch material in next 1" of spoon)				0																
4.0		S2				(Wood in bottom 2" of spoon)																				
			24/10	3-5	7	Brown f-c SAND, some silt, little f Gravel (less viscous pitch)				00.2																
					17	changing to Brown f-m SAND				12.2																
					30	(Hard pitch material in bottom 1")				6.1																
6.0		S3				Black f-c SAND (obvious sheen)																				
			24/20	5-7	5	changing after 10" to brick				0																
					15	changing after 6" to Black f-c SAND, little Silt, trace f Gravel				0																
					10					0																
8.0		S4				Brown-Black f-c SAND, little Silt (wood at 8.5')																				
			24/24	7-9	10	(Some staining in wet soil top 1')				0																
					12					0																
					7					0																
10.0		S5				Black f-c SAND, little Silt, little f Gravel																				
			24/10	9-11	4					0																
					2					0																
					1					0																
12.0		S6				Black f-c SAND, little Silt (very wet)																				
					2	(Hard PA material throughout)																				
					11-13																					
					6																					
14.0		S7				Black f-c SAND, little Silt																				
					8	(Hard pitch material, less viscous pitch material throughout)																				
					12																					
					13-15																					
					1	changing to SILTY CLAY in bottom 3",																				
					2																					
GRANULAR SOILS BLOWS/FT DENSITY			COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. A 3" spoon was used for all samples 2. PID not working due to rain 3. EOB @ 15'.																					
0-4	VERY LOOSE	<2	VERY SOFT																							
4-10	LOOSE	2-4	SOFT																							
10-30	MEDIUM DENSE	4-8	M. STIFF																							
30-50	DENSE	8-15	STIFF																							
>50	VERY DENSE	15-30	V. STIFF																							
		>30	HARD																							
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE																										

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT: <u>L. park Edgewater</u> <u>45 River Rd.</u> <u>Edgewater NJ</u>		REPORT OF BORING NO. <u>GZA-121</u> SHEET <u>1 of 1</u> FILE NO. <u>41.0161318.00</u> CHKD BY _____				
BORING CO. <u>Summit</u> DRILLING RIG <u>CME</u> FOREMAN <u>John Murtha</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>M. Hayes and D. Salerno</u>		BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/11/06</u> DATE END <u>10/11/06</u>								
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME						
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING	
2.0		S1	24/14	0-2	7	Brown f-m SAND, some Silt (concrete in bottom 2" of spoon)				
					7					
					6					
					8					
4.0		S2	0/0	2-4		concrete at 2" HSA to 3" No recovery		FILL		
				24/0	3-5					50
										40
6.0		S3			28	Gray f-m SAND, little Silt	1			
					20					
				24/15	5-7					7
										2
8.0		S4			3	Brown SILTY CLAY (organic material) changing after 6" to Gray-black m-c SAND, little Silt (slight odor) (Brown wood chips in middle 2" of spoon)	2			
					2					
				24/14	7-9					2
										1
10.0		S5			2	Gray m-c SAND, little Silt (slight odor) (Brown wood chips in top 1" of spoon)				
					1					
				24/5	9-11					2
										1
12.0		S6			1	Brown SILTY CLAY (organic material)		SILTY CLAY		
					1					
				24/20	11-13					1
										1
14.0		S7			1	EOB @ 13'				
					1					
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. Water table observed at 5'. 2. Sample for TPH taken at 15:05 at a depth of 5-5.5'.						
0-4	VERY LOOSE	<2	VERY SOFT							
4-10	LOOSE	2-4	SOFT							
10-30	MEDIUM DENSE	4-8	M. STIFF							
30-50	DENSE	8-15	STIFF							
>50	VERY DENSE	15-30	V. STIFF							
		>30	HARD							
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE										
								BORING NO. <u>GZA-121</u>		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT i. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-124 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY					
ENGINEERS AND SCIENTISTS											
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION <u>See Exploration Location Plan</u>							
FOREMAN <u>Denis Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____ DATUM _____							
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/16/06</u> DATE END <u>10/16/06</u>							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS							
				DATE	TIME	WATER	CASING	STABILIZATION TIME			
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING		
2.0		S1	12/0	0-2	15	No recovery - refusal on cobble		FILL	0		
					20	HSA to 2'					
4.0		S2	24/1	2-4	47	Brown-black SILTY CLAY, trace f Gravel					
					27						
					13						
6.0		S3	24/8	4-6	13	Black f-m SAND, some Silt, trace f Gravel (brick)	2				0
					14					0	
					8						
8.0		S4				EOB @ 5'.					
10.0		S5									
12.0		S6									
14.0		S7									
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. A 3" split spoon sampler was used for this boring. 2. Water table observed at 4.5'.							
0-4	VERY LOOSE	<2	VERY SOFT								
4-10	LOOSE	2-4	SOFT								
10-30	MEDIUM DENSE	4-8	M. STIFF								
30-60	DENSE	8-15	STIFF								
>60	VERY DENSE	15-30	V. STIFF								
		>30	HARD								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE											
								BORING NO. GZA-124			

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-124B SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY			
BORING CO. <u>Summit Drilling</u> DRILLING RIG _____ FOREMAN <u>John Murtha</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>M. Hayes</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/17/08</u> DATE END <u>10/17/08</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/0	0-2	27	10" asphalt		FILL	
					20	No recovery			
					15				
					10				
4.0		S2	24/4	2-4	5	Black-brown f-c SAND, little Silt, trace f Gravel			
					4				
					5				
					20				
6.0		S3	24/0	4-6	11	No recovery (wet)			
					4				
					10				
					2				
8.0		S4	24/8	6-8	6	Black f-c SAND, little Silt			
					8	(brick, hard pitch material at top of spoon and less viscous pitch			
					12	material throughout coating soil)			
					8				
10.0		S5	24/24	8-10	14	Black f-c SAND, little Silt			
					6	(top 1" less viscous pitch material, then 6" hard pitch, and 6" no pitch)			
					7				
					6				
12.0		S6	24/24	10-12	2	Black f-c SAND, little Silt, changing after 18" to brown SILTY CLAY			
					1	(obvious staining and sheen)			
					1	(Less viscous pitch)			
					1				
14.0		S7				EOB @12'		SILTY CLAY	
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. No recovery in GZA-124A so tried another location approx. 5' SW 2. A 3" spoon was used until the third spoon (4-6'), when it was switched to a 2' spoon to try for better recovery					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-124B	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT L park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-125 SHEET 1 of 1 FILE NO. 41.0101318.00 CHKD BY			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION		See Exploration Location Plan			
FOREMAN <u>John Murtha</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV.		DATUM			
GZA ENG. <u>M. Hayes</u>				DATE START <u>10/19/06</u>		DATE END <u>10/19/06</u>			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/24	0-2	10	Brown f-c SAND, some Silt (brick, concrete) (6" topsoil)			
					12				
					15				
					25				
4.0		S2	24/12	2-4	7	Brown SILTY CLAY changing after 2" to Soft pitch material with Geotextile fabric			
					7				
					12				
					8				
6.0		S3	24/24	4-6	15	Black hard pitch material, some soft pitch, little concrete, little Black f-c SAND			
					18				
					14				
					10				
8.0		S4	24/20	6-8	8	Black soft pitch material changing after 3" to Black f-c SAND, little Silt, with crushed hard pitch			
					10				
					14				
					8				
10.0		S5	24/22	8-10	8	Black f-c SAND, little Silt (little soft pitch top 4")			
					7				
					7				
					4				
12.0		S6	24/16	10-12	14	Brown SILTY CLAY changing after 6" to soft and hard pitch changing after 4" to wood			
					18				
					7				
					4				
14.0		S7	24/6	12-14	3	Black f-c SAND, trace Silt (soft pitch)			
					1				
					1				
					1				
		S8	24/24	14-16	5	Black f-c SAND, little Silt changing after 16" to Brown SILTY CLAY		SILTY CLAY	
					3				
					1				
					1				
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. A 3" spoon was used for this boring. 2. Taffy PA material in drill cuttings from 10-15' 3. EOB @ 16'					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
>30				HARD					
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
BORING NO. GZA-125									

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO.		GZA-126A	
				J. park Edgewater		SHEET		1 of 1	
				45 River Road		FILE NO.		41.0161318.00	
				Edgewater New Jersey		CHKD BY:			

BORING CO. <u>Summit Drilling</u> DRILLING RIG _____			BORING LOCATION <u>See Exploration Location Plan</u>			
FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u>			GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>D. Salerno</u>			DATE START <u>10/18/06</u> DATE END <u>10/18/06</u>			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____			GROUNDWATER READINGS				
			DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING	
				DEPTH (FT)	BLOWS/6"					
2.0		S1	24/13	0-2	12	Red-brown f-m SAND, little Silt, little f Gravel (brick in top 3")		FILL	0	
					14				0	
					10				0	
					7					
4.0		S2	24/0	2-4	10	Spoon lost in hole Move boring location 2' West				
					12					
					20					
					24					
6.0		S3				EOB @ 4'.				
8.0		S4								
10.0		S5								
12.0		S6								
14.0		S7								

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. A 3" spoon was used for this boring. 2. Boring location moved 2' West of original location.
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-60	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA-126A

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-125	
				L park Edgewater		SHEET 1 of 1	
				45 River Road		FILE NO. 41.0161318.00	
ENGINEERS AND SCIENTISTS				Edgewater New Jersey		CHKD BY	


BORING CO. <u>Summit Drilling</u> DRILLING RIG				BORING LOCATION <u>See Exploration Location Plan</u>			
FOREMAN <u>John Murtha</u> TYPE OF DRILLING <u>HSA</u>				GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>M. Hayes</u>				DATE START <u>10/19/06</u> DATE END <u>10/19/06</u>			

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SPOON NO	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
			PEN/REC	DEPTH (FT)	BLOWS/6"				
2.0		S1	24/24	0-2	10	Brown f-c SAND, some Silt (brick, concrete) (6" topsoil)			
					12				
					15				
					25				
4.0		S2	24/12	2-4	7	Brown SILTY CLAY changing after 2" to Taffy PA material with Geotextile fabric			
					7				
					12				
					8				
6.0		S3	24/24	4-6	15	Black hard PA material, some taffy PA, little concrete, little Black f-c SAND			
					18				
					14				
					10				
8.0		S4	24/20	6-8	8	Black taffy PA material changing after 3" to Black f-c SAND, little Silt, with crushed hard PA			
					10				
					14				
					8				
10.0		S5	24/22	8-10	8	Black f-c SAND, little Silt (little taffy PA top 4")			
					7				
					7				
					4				
12.0		S6	24/16	10-12	14	Brown SILTY CLAY changing after 6" to taffy and hard PA changing after 4" to wood			
					18				
					7				
					4				
14.0		S7	24/6	12-14	3	Black f-c SAND, trace Silt (taffy PA)			
					1				
					1				
					1				
		S8	24/24	14-16	5	Black f-c SAND, little Silt changing after 16" to Brown SILTY CLAY		SILTY CLAY	
					3				
					1				
					1				

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. A 3" spoon was used for this boring. 2. Taffy PA material in drill cuttings from 10-15' 3. EOB @ 16'
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE		BORING NO. GZA-125
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-126B			
				I. park Edgewater 45 River Road Edgewater New Jersey		SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY _____			
ENGINEERS AND SCIENTISTS									
BORING CO. Summit Drilling		DRILLING RIG		BORING LOCATION					
FOREMAN Denis Crayon		TYPE OF DRILLING HSA		GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. D. Salerno				DATE START 10/18/06		DATE END 10/18/06			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0						HSA to 2'.			
4.0		S1	22/8	2-4	12	Brown f-m SAND, some Silt, changing after 1" to		FILL	0
					20	Black f-m SAND and SILT			0
					32	(brick and wood in middle 2")			
					50/4				
6.0		S2	24/14	4-6	12	Brown f-m SAND, little Silt (brick) changing after 4" to			0
					5	Black f-m SAND, some Silt (wood and brick)			0
					12				0
					15				0
8.0		S3	24/10	6-8	12	Black f-m SAND, little silt (paper, brick) changing after	2		
					15	4" to hard PA material (sheen and odor)			
					17				
					8				
10.0		S4	24/24	8-10	7	Black f-m SAND, and SILT, some c Sand changing after		SILTY CLAY	
					4	12" to Black SILTY CLAY			
					6	(hard PA and Geotextile fabric with PA in middle of spoon,			
					6	less viscous PA coating soil, sheen and odor)			
12.0		S5				EOB @ 10'.			
14.0		S6							
GRANULAR SOILS		COHESIVE SOILS		REMARKS:					
BLOWS/FT DENSITY		BLOWS/FT CONSISTENCY							
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF	1. A 3" spoon was used for this boring. 2. Water table observed at 5'.					
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES:									
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-126B	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. <u>GZA-127</u> SHEET <u>1 of 1</u> FILE NO. <u>41.0161318.00</u> CHKD BY _____			
				BORING CO. <u>Summit Drilling</u> DRILLING RIG <u>CME</u>		BORING LOCATION <u>See Exploration Location Plan</u>			
				FOREMAN <u>John Murtha</u> TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____ DATUM _____			
GZA ENG. <u>M. Hayes</u>		DATE START <u>10/19/06</u> DATE END <u>10/19/06</u>							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/20	0-2	35	6" asphalt	1.	FILL	
					15	6" brick			
					25	6" crushed hard pitch material			
					30	6" soft and less viscous pitch with concrete			
4.0		S2	24/20	2-4	6	Brown SILTY CLAY changing after 5" to			
					12	Black f-c SAND, little Silt			
					64	(little less viscous pitch, little concrete)			
					15				
6.0		S3	24/20	4-6	10	Black f-m SAND, some Silt (less viscous pitch) changing			
					8	after 6" to Black f-c SAND, little Silt (some concrete)			
					9				
					6				
8.0		S4	24/12	6-8	6	Black f-c SAND, little Silt, little gray m Sand			
					3				
					2				
					1				
10.0		S5	24/16	8-10	4	Black f-c SAND, little Silt (slight sheen)			
					12				
					18				
					4				
12.0		S6	24/0	10-12	1	No recovery			
					2				
					2				
					2				
14.0		S7				EOB @ 12'			
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:					
0-4	VERY LOOSE	<2	VERY SOFT	1. Presumed to encounter the organic layer at 10' based on blow counts.					
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
BORING NO. <u>GZA-127</u>									

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-128A SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY _____			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG _____		BORING LOCATION <u>See Exploration Location Plan</u>					
FOREMAN <u>Denis Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____ DATUM _____					
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/17/06</u> DATE END <u>10/17/06</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	10/8	0-2	53	Light brown f-m SAND, little Silt, little f Gravel		FILL	
					50/4	(Hard pitch in bottom of spoon)			
						Refusal on hard pitch; HSA to 2'			
4.0		S2	4/0	2-4	50/4	Refusal on concrete			
						HSA to 4'.			
6.0		S3	24/10	4-6	4	Black m-c SAND			
					8	(concrete in bottom 3")			
					12				
8.0		S4	24/11	6-8	9	Black m-c SAND, little Silt, trace f Gravel			
					4	(trace brick in top of spoon)			
					4	(Soft pitch in bottom 2" of spoon)			
10.0		S5	24/14	8-10	7	Black m-c SAND, little Silt, trace f Gravel			
					14	(Hard pitch in top 4")			
					6				
12.0		S6			8	Black m-c SAND, little Silt, trace f Gravel			
					3				
					3				
14.0		S7	24/10	12-14	9	Black m-c SAND, little Silt, trace f Gravel (wood and glass)			
					15	(Hard pitch in bottom 3")			
					7				
		S8	24/24	14-16	3	Black m-c SAND, little Silt, trace f Gravel			
					2	changing after 3" to Brown SILTY CLAY			
					2				
					3		1.	SILTY CLAY	
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. EOB @ 16'.					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-128A	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-128B SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY																																																																																																																																																																																																																					
				ENGINEERS AND SCIENTISTS																																																																																																																																																																																																																							
BORING CO. <u>Summit Drilling</u> DRILLING RIG _____ FOREMAN <u>Dennis Crayon</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>D. Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/17/06</u> DATE END <u>10/17/06</u>																																																																																																																																																																																																																							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME																																																																																																																																																																																																																							
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DEPTH</th> <th rowspan="2">CASING BLOWS</th> <th colspan="4">SAMPLE</th> <th rowspan="2">SAMPLE DESCRIPTION BURMISTER CLASSIFICATION</th> <th rowspan="2">R K</th> <th rowspan="2">STRATUM DESCRIPTION</th> <th rowspan="2">FIELD TESTING</th> </tr> <tr> <th>SPOON NO</th> <th>PEN/REC</th> <th>DEPTH (FT)</th> <th>BLOWS/6"</th> </tr> </thead> <tbody> <tr> <td rowspan="4">2.0</td> <td rowspan="4"> </td> <td rowspan="4">S1</td> <td>24/7</td> <td>0-2</td> <td>4</td> <td rowspan="4">Gray-brown f-m SAND, little Silt, trace f Gravel changing after 3" to Black f-m SAND (Hard pitch)</td> <td rowspan="4"> </td> <td rowspan="4"> </td> <td>0</td> </tr> <tr><td> </td><td> </td><td>7</td><td>0</td></tr> <tr><td> </td><td> </td><td>8</td><td> </td></tr> <tr><td> </td><td> </td><td>8</td><td> </td></tr> <tr> <td rowspan="4">4.0</td> <td rowspan="4"> </td> <td rowspan="4">S2</td> <td>24/10</td> <td>2-4</td> <td>17</td> <td rowspan="4">Brown f-m SAND, little Silt, trace f Gravel changing after 1" to Black hard pitch material, trace f Gravel</td> <td rowspan="4"> </td> <td rowspan="4">FILL</td> <td>0</td> </tr> <tr><td> </td><td> </td><td>21</td><td>0</td></tr> <tr><td> </td><td> </td><td>23</td><td> </td></tr> <tr><td> </td><td> </td><td>17</td><td> </td></tr> <tr> <td rowspan="4">6.0</td> <td rowspan="4"> </td> <td rowspan="4">S3</td> <td>24/5</td> <td>4-6</td> <td>48</td> <td rowspan="4">Black f-m SAND, little Silt, trace f Gravel (Hard pitch in bottom of spoon, odor)</td> <td rowspan="4"> </td> <td rowspan="4"> </td> <td>0</td> </tr> <tr><td> </td><td> </td><td>28</td><td> </td></tr> <tr><td> </td><td> </td><td>17</td><td> </td></tr> <tr><td> </td><td> </td><td>6</td><td> </td></tr> <tr> <td rowspan="4">8.0</td> <td rowspan="4"> </td> <td rowspan="4">S4</td> <td>24/0</td> <td>6-8</td> <td>6</td> <td rowspan="4">No recovery</td> <td rowspan="4"> </td> <td rowspan="4"> </td> <td> </td> 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<td rowspan="4">14.0</td> <td rowspan="4"> </td> <td rowspan="4">S7</td> <td>24/11</td> <td>12-14</td> <td>2</td> <td rowspan="4">Same as above (sheen 5" from bottom) (Geotextile fabric with pitch material in shoe)</td> <td rowspan="4"> </td> <td rowspan="4"> </td> <td> </td> </tr> <tr><td> </td><td> </td><td>4</td><td> </td></tr> <tr><td> </td><td> </td><td>4</td><td> </td></tr> <tr><td> </td><td> </td><td>8</td><td> </td></tr> <tr> <td rowspan="4">16.0</td> <td rowspan="4"> </td> <td rowspan="4">S8</td> <td>24/8</td> <td>14-16</td> <td>7</td> <td rowspan="4">Same as above (concrete and brick) (sheen coating soil, slight odor)</td> <td rowspan="4"> </td> <td rowspan="4"> </td> <td> </td> </tr> <tr><td> </td><td> </td><td>9</td><td> </td></tr> <tr><td> </td><td> </td><td>11</td><td> </td></tr> <tr><td> </td><td> </td><td>11</td><td> </td></tr> <tr> <td rowspan="4"> </td> <td rowspan="4"> </td> <td rowspan="4">S9</td> <td>24/15</td> <td>16-18</td> <td>4</td> <td rowspan="4">Black f-c 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recovery						5				5				4		10.0		S5	24/8	8-10	4	Black f-c SAND, little Silt, trace f Gravel (wood, glass, metal) (silvery sheen coating soil)			0			5				6				9		12.0		S6	24/4	10-12	2	Black f-m SAND, some Silt, trace f Gravel			0			3				3				4		14.0		S7	24/11	12-14	2	Same as above (sheen 5" from bottom) (Geotextile fabric with pitch material in shoe)						4				4				8		16.0		S8	24/8	14-16	7	Same as above (concrete and brick) (sheen coating soil, slight odor)						9				11				11				S9	24/15	16-18	4	Black f-c SAND, little Silt, trace f Gravel (wood, glass, metal) changing after 3" to Brown SILTY CLAY (Sheen and odor throughout)			0			10	0			11	0			11		GRANULAR SOILS COHESIVE SOILS BLOWS/FT DENSITY BLOWS/FT CONSISTENCY 0-4 VERY LOOSE <2 VERY SOFT 4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. 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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">GRANULAR SOILS</th> <th colspan="2">COHESIVE SOILS</th> </tr> <tr> <th>BLOWS/FT</th> <th>DENSITY</th> <th>BLOWS/FT</th> <th>CONSISTENCY</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>VERY LOOSE</td> <td><2</td> <td>VERY SOFT</td> </tr> <tr> <td>4-10</td> <td>LOOSE</td> <td>2-4</td> <td>SOFT</td> </tr> <tr> <td>10-30</td> <td>MEDIUM DENSE</td> <td>4-8</td> <td>M. STIFF</td> </tr> <tr> <td>30-50</td> <td>DENSE</td> <td>8-15</td> <td>STIFF</td> </tr> <tr> <td>>50</td> <td>VERY DENSE</td> <td>15-30</td> <td>V. STIFF</td> </tr> <tr> <td></td> <td></td> <td>>30</td> <td>HARD</td> </tr> </tbody> </table>				GRANULAR SOILS		COHESIVE SOILS		BLOWS/FT	DENSITY	BLOWS/FT	CONSISTENCY	0-4	VERY LOOSE	<2	VERY SOFT	4-10	LOOSE	2-4	SOFT	10-30	MEDIUM DENSE	4-8	M. STIFF	30-50	DENSE	8-15	STIFF	>50	VERY DENSE	15-30	V. STIFF			>30	HARD	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE																																																																																																																		
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT 1. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-131A SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY			
BORING CO. <u>Summit Drilling</u> DRILLING RIG _____ FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>D. Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/20/06</u> DATE END <u>10/20/06</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
						HSA to 18'.		FILL	
2.0									
4.0									
6.0									
8.0									
10.0									
12.0									
14.0							1		
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. Continues next page.					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES:				1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE					
				BORING NO. GZA-131A					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-131A SHEET 2 of 2 FILE NO. 41.0181318.00 CHKD BY			
BORING CO. Summit Drilling DRILLING RIG FOREMAN Denis Crayon TYPE OF DRILLING HSA GZA ENG. D. Salerno				BORING LOCATION See Exploration Location Plan GROUND SURFACE ELEV. DATUM DATE START 10/20/06 DATE END 10/20/06					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
16.0		S8	24/2	14-16	24	f GRAVEL			
					26				
					22				
					28				
18.0		S9	13/2	16-18	22	f GRAVEL			
					48				
					100/1		HSA to 18'.		
20.0						EOB @ 18' (refusal).			
22.0									
24.0									
26.0									
28.0									
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
BORING NO. GZA-131A									

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-131B	
				1. park Edgewater 45 River Road Edgewater New Jersey		SHEET 1 of 1 FILE NO. 41.016131B.00 CHKD BY	
ENGINEERS AND SCIENTISTS							

BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION <u>See Exploration Location Plan</u>	
FOREMAN <u>Denis Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/20/06</u> DATE END <u>10/20/06</u>	

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
18						HSA to 16'.		FILL	
18.0		S1	24/4	18-18	12	Black f-c SAND, little Silt, trace f Gravel (metal, wood, brick)			
				18					
				28					
				14					
20.0		S2	24/3	18-20	7	Gray Silty CLAY		CLAY	
				14					
				20					
				26					
					EOB @ 20'.				

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT CONSISTENCY	REMARKS:
0-4 VERY LOOSE	<2 VERY SOFT	
4-10 LOOSE	2-4 SOFT	
10-30 MEDIUM DENSE	4-8 M. STIFF	
30-50 DENSE	8-15 STIFF	
>50 VERY DENSE	15-30 V. STIFF	
	>30 HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO.	GZA-131B
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-132			
				i. park Edgewater 45 River Road Edgewater New Jersey		SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY			
ENGINEERS AND SCIENTISTS									
BORING CO. Summit Drilling		DRILLING RIG CME		BORING LOCATION See Exploration Location Plan					
FOREMAN John Murtha		TYPE OF DRILLING HSA		GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. M, Hayes and D. Salemo				DATE START 10/12/06		DATE END 10/12/06			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/24	0-2	2	Brown f-m SAND, little Silt, little f Gravel (trace brick and organic material)			0
				3	0				
				14	0				
				40	0				
4.0		S2	24/19	2-4	20	Black f-m SAND, little Silt, little f Gravel (trace brick)			0
				35	0				
				20	0				
				21	0				
6.0		S3				EOB @ 4'			
8.0		S4							
10.0		S5							
12.0		S6							
14.0		S7							
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. Sample taken at 3.5-4' at 15:20 for Cr(VI).					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
				>30	HARD				
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-132	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO.		GZA-133A		
				I. park Edgewater		SHEET		1 of 1		
ENGINEERS AND SCIENTISTS				45 River Road		FILE NO.		41.0161318.00		
				Edgewater New Jersey		CHKD BY				
BORING CO. Summit Drilling		DRILLING RIG		BORING LOCATION		See Exploration Location Plan				
FOREMAN Denis Crayon		TYPE OF DRILLING HSA		GROUND SURFACE ELEV.		DATUM				
GZA ENG. D. Salerno				DATE START 10/18/06		DATE END 10/18/06				
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS						
				DATE	TIME	WATER	CASING	STABILIZATION TIME		
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION		R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/14	0-2	25	Brown f-m SAND, little Silt changing after 2" to				0
					40	Concrete and brick changing after 10" to				0
					30	Black f-m SAND (odor)				
					32					
4.0		S2	24/0	2-4	46	No recovery			FILL	
					32					
					28					
					21					
6.0		S3	24/0	4-6	6	No Recovery				
					7					
					7					
					8					
8.0		S4	24/22	6-8	16	Black SILTY CLAY, changing after 8" to				0
					8	Black f-c SAND, little Silt, trace f Gravel (wood, metal, brick)				0
					7	changing after 3" to Brown SILTY CLAY				0
					17					SILTY CLAY
10.0		S5				EOB @ 8'.				
12.0		S6								
14.0		S7								
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:						
0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE >50 VERY DENSE		<2 VERY SOFT 2-4 SDFT 4-8 M. STIFF 8-15 STIFF 15-30 V. STIFF >30 HARD		1. Water table observed at 5.5-6'.						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE										
BORING NO. GZA-133A										

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-1338 SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY _____			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG _____		BORING LOCATION <u>See Exploration Location Plan</u>					
FOREMAN <u>Denis Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/18/06</u>		DATE END <u>10/18/06</u>			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SAMPLE SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1				HSA to 2'			
4.0		S2	24/20	2-4	11	Brown-black f-m SAND, little Silt (odor)			0
					16	(Wood and brick in top of spoon)			0
					17				0
					20				0
6.0		S3	24/14	4-6	15	Light brown f-m SAND, little Silt (organic material)	1		0
					14	(Black staining in bottom 9")			0
					12				0
					15				0
8.0		S4				EOB @ 6'.			
10.0		S5							
12.0		S6							
14.0		S7							
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:					
0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE >50 VERY DENSE		<2 VERY SOFT 2-4 SOFT 4-8 M. STIFF 8-15 STIFF 15-30 V. STIFF >30 HARD		1. Sample taken at 4-4.5' at 13:45.					
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-1338	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-134 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY				
BORING CO. <u>Summit Drilling</u> DRILLING RIG FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>D. Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/19/06</u> DATE END <u>10/19/06</u>						
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME						
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/8"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING	
2.0		S1	24/12	0-2	8	Gray-black f-m SAND, some Silt, trace f Gravel (brick)		FILL	0	
					13				0	
					11					
					7					
4.0		S2	24/14	2-4	4	Black m-c SAND, little Silt (concrete at top of spoon)			0	
					6				0	
					10				0	
					12					
6.0		S3	24/12	4-6	3	Brown-black f-m SAND, little Silt (brick) (soft pitch material throughout)	1		0	
					7				54.6	
					17					
					18					
8.0		S4				EOB @ 6'.				
10.0		S5								
12.0		S6								
14.0		S7								
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT. CONSISTENCY		REMARKS: 1. Sample taken at 4.5-5' at 9:10.						
0-4	VERY LOOSE	<2	VERY SOFT							
4-10	LOOSE	2-4	SOFT							
10-30	MEDIUM DENSE	4-8	M. STIFF							
30-50	DENSE	8-15	STIFF							
>50	VERY DENSE	15-30	V. STIFF							
		>30	HARD							
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE										
								BORING NO. GZA-134		


GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT i. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-135A SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY			
ENGINEERS AND SCIENTISTS									
BORING CO. Summit Drilling		DRILLING RIG		BORING LOCATION		See Exploration Location Plan			
FOREMAN Denis Crayon		TYPE OF DRILLING HSA		GROUND SURFACE ELEV.		DATUM			
GZA ENG. D. Salerno				DATE START 10/18/06		DATE END 10/18/06			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME					
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN.									
CASING SIZE:									
DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
2.0		S1	14/6	0-2	25	Gray m-c SAND, little Silt, trace f Gravel (trace brick) HSA to 2'.			0
					30				
					50/2				
4.0		S2				EOB @ 2'. Refusal on concrete.			
6.0		S3							
8.0		S4							
10.0		S5							
12.0		S6							
14.0		S7							
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:					
0-4 VERY LOOSE		<2 VERY SOFT		1. EOB @ 2' due to refusal. Moved boring to try for better recovery.					
4-10 LOOSE		2-4 SOFT							
10-30 MEDIUM DENSE		4-8 M. STIFF							
30-50 DENSE		8-15 STIFF							
>50 VERY DENSE		15-30 V. STIFF							
		>30 HARD							
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									


GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-135B				
				I. park Edgewater,		SHEET 1 of 2				
				45 River Road		FILE NO. 41.0161318.06				
				Edgewater New Jersey		CHKD BY _____				
BORING CO. <u>Summit Drilling</u> DRILLING RIG _____ FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>D. Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/18/06</u> DATE END <u>10/18/06</u>						
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS						
				DATE	TIME	WATER	CASING	STABILIZATION TIME		
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING	
2.0		S1				HSA to 2".				
4.0		S2	24/4	2-4	12	Brown f-m SAND, little Silt (trace brick and concrete in bottom 2")			0	
			10							
6.0		S3	24/2	4-6	3	Brown f-m SAND, little Silt (brick)		FILL	0	
			4							
8.0		S4	24/4	6-8	10	Black CLAYEY SILT, trace Brown f-m SAND (concrete in bottom 2")			0	
			10							
10.0		S5	24/9	8-10	11	Red-brown f-m SAND, little Silt, trace f Gravel (brick top 3")			0	
			11							
12.0		S6	24/10	10-12	25	Gray f-m SAND, little Silt changing after 1" to Black m-c SAND, trace f Gravel (wood and brick)			0	
			13							
14.0		S7	24/7	12-14	2	Black m-c SAND, little Silt, little f Gravel			0	
			6							
GRANULAR SOILS		COHESIVE SOILS		REMARKS:						
BLOWS/FT DENSITY		BLOWS/FT CONSISTENCY								
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT 45 River Road Edgewater, New Jersey		REPORT OF BORING NO. GZA-139 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY DW			
ENGINEERS AND SCIENTISTS				BORING LOCATION		GROUND SURFACE ELEV. _____ DATUM _____			
BORING CO. Summit Drilling FOREMAN Dennis GZA ENG. Meredith Hayes and Danielle Salerno				DATE START 10/16/06		DATE END 10/16/06			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN				GROUNDWATER READINGS					
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN.				DATE	TIME	WATER	CASING		
CASING SIZE: OTHER 3 3/4" HSA				STABILIZATION TIME					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0		S1	24/15	0-2	16	Gray-brown m-c SAND, some f Gravel.		FILL	0
					37	(1" concrete in bottom, trace brick fragments)			0
					35				0
					34				0
3.0		S2	12/9	2-3	35	Black f-m SAND, some Silt, trace f Gravel.			0
					25				0.1
5.0		S3	12/5	3-5	26	Brown, m-c SAND, some Silt, trace Gravel.			0
					50/2				0
									6.2
									5.4
7.0		S4	24/9	5-7	11	Brown, m-c SAND (slight sheen, coal tar odor) changing to Silty CLAY bottom 2".			0
					12				0
					10				0
					4				0
9.0		S5	24/19	7-9	3	Brown f-m SAND, little Silt, trace f Gravel (coal tar odor, slight sheen) changing after 17" to Brown SILTY CLAY.			0
					2				2.9
					1				3.5
					4				6.0
EOB @ 9'.									
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		REMARKS:					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
				>30 HARD					
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-139	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-140 SHEET 1 of 1 FILE NO. 41.0161316.00 CHKD BY:			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION		See Exploration Location Plan			
FOREMAN <u>John Murtha</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV.		DATUM			
GZA ENG. <u>M. Hayes</u>				DATE START <u>10/17/06</u>		DATE END <u>10/17/06</u>			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN				GROUNDWATER READINGS					
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN.				DATE TIME WATER CASING STABILIZATION TIME					
CASING SIZE:									
DEPTH	CASING	SAMPLE				SAMPLE DESCRIPTION	R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURMISTER CLASSIFICATION	K	DESCRIPTION	TESTING
2.0		S1				1" asphalt			
	24/12		1-3	4	Brown f-m SAND, some Silt		0		
					5	(Hard pitch in bottom 3")			0
4.0		S2			10				
	24/24		3-5	3	Black f-c SAND, little Silt (some brick)		0		
					50	(Geotextile fabric with pitch material from 2.5-3')	1	FILL	0
6.0		S3			20	(Soft pitch from 3-4')			0
	24/16		5-7	6	Black f-m SAND, some Silt		58.3		
					2	(Soft pitch throughout)			
8.0		S4			1				
	24/10		7-9	3	Black f-c SAND, trace Silt		33.0		
					2	(2" Soft pitch in shoe)			0
10.0		S5			2	(wet throughout)			
	24/16		9-11	15	Hard pitch material		0		
					8				
12.0		S6			3				
	24/8		11-13	3	Black f-m SAND (concrete)		5.0		
					1	(obvious staining and sheen)			
14.0		S7			1	(Less viscous pitch)			
	24/20		13-15	1	Brown SILTY CLAY		0		
					1				0
					1				0
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. EOB @ 15'.					
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-50	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
						BORING NO. GZA-140			

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-141 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY _____				
ENGINEERS AND SCIENTISTS										
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION <u>See Exploration Location Plan</u>						
FOREMAN <u>Denle Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____		DATUM _____				
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/17/06</u>		DATE END <u>10/17/06</u>				
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS						
				DATE	TIME	WATER	CASING	STABILIZATION TIME		
DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING	
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"					
2.0		S1	10/8	0-2	33	Light brown f-m SAND, little Silt, trace f Gravel (concrete) (Hard pitch bottom 2") (Soft pitch at 18") HSA to 2'.		FILL		
					50/4					
4.0		S2	24/10	2-4	33	Concrete and f Gravel changing after 2" to Hard pitch (sheen and odor) changing after 5.5" to Geotextile fabric with pitch material				
					53					
					18					
6.0		S3	24/11	4-6	50	Black f-c SAND, some Silt, trace f Gravel (Hard pitch in top 3")				
					30					
					17					
8.0		S4	24/17	6-8	3	Black-brown m-c SAND, little f Gravel (little Hard pitch in bottom 2")				
					1					
					1					
10.0		S5	24/24	8-10	7	Black m-c SAND, little Silt, trace SILTY CLAY (Trace Geotextile fabric with pitch at top) (Trace Hard pitch at bottom)				
					4					
					2					
12.0		S6	13/3	10-12	17	SILTY CLAY changing after 1" to Hard pitch and wood EOB @ 11'.		SILTY CLAY		
					7					
					50/1					
14.0		S7								
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 4. Refusal at 11'. Relocated boring 6' SE.						
0-4	VERY LOOSE	<2	VERY SOFT							
4-10	LOOSE	2-4	SOFT							
10-30	MEDIUM DENSE	4-8	M. STIFF							
30-50	DENSE	8-15	STIFF							
>50	VERY DENSE	15-30	V. STIFF							
		>30 HARD								
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BORING NO. GZA-141										

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I. park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-141B SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY												
BORING CO. <u>Summit Drilling</u> DRILLING RIG _____ FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u> GZA ENG. <u>D. Salerno</u>				BORING LOCATION <u>See Exploration Location Plan</u> GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>10/19/06</u> DATE END <u>10/19/06</u>														
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE: _____				GROUNDWATER READINGS DATE TIME WATER CASING STABILIZATION TIME														
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>														
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING									
2.0		S1	19/11	0-2	16	Gray-brown f-m SAND, little Silt			0									
					30	(Trace brick and concrete in bottom 6")			0									
					30													
					50/1													
4.0		S2		2-3		HSA to 3'. Refusal on concrete.												
6.0		S3				EOB @ 3'.	1											
8.0		S4																
10.0		S5																
12.0		S6																
14.0		S7																
GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS: 1. Refusal on concrete at 3'. Boring location moved 1' East for better recovery.														
0-4	VERY LOOSE	<2	VERY SOFT															
4-10	LOOSE	2-4	SOFT															
10-30	MEDIUM DENSE	4-8	M. STIFF															
30-50	DENSE	8-15	STIFF															
>50	VERY DENSE	15-30	V. STIFF															
		>30	HARD															
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE																		
								BORING NO. GZA-141B										

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPORT OF BORING NO. GZA-141C			
				I. park Edgewater 45 River Road Edgewater New Jersey		SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY:			
ENGINEERS AND SCIENTISTS									
BORING CO. <u>Summit Drilling</u>		DRILLING RIG		BORING LOCATION		See Exploration Location Plan			
FOREMAN <u>Denis Crayon</u>		TYPE OF DRILLING <u>HSA</u>		GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENG. <u>D. Salerno</u>				DATE START <u>10/19/06</u>		DATE END <u>10/19/06</u>			
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
2.0						HSA to 2'			
		S1	24/15	2-4	55	Brown-gray f-m SAND, little Silt (concrete and brick)			0
				18	changing after 3" to Hard PA (odor)			0	
				13	changing after 4" to Brown-black f-m SAND, trace f Gravel			0	
4.0					12				
		S2	24/14	4-6	48	Black f-c SAND, little Silt, trace f Gravel (wood, concrete, brick)			0
				8				0	
				5				0	
6.0					3				
		S3	24/12	6-8	1	Similar to above			0
				1	(concrete and brick in bottom 1")			0	
				2					
8.0					3				
		S4	24/4	8-10	1	Similar to above			0
				2					
				4					
10.0					15				
		S5	24/11	10-12	10	Black f-m SAND, little Silt			0
				7	(Hard pitch in top)			0	
				2	(sheen and odor in bottom)				
12.0					2				
		S6	24/8	12-14	3	Black f-c SAND, little Silt, trace f Gravel (wood, concrete, brick)			
				2	(Geotextile fabric with pitch material, gray sheen, odor in				
				7	bottom 3")				
14.0					8				
GRANULAR SOILS		COHESIVE SOILS		REMARKS:					
BLOWS/FT DENSITY		BLOWS/FT CONSISTENCY							
0-4	VERY LOOSE	<2	VERY SOFT						
4-10	LOOSE	2-4	SOFT						
10-30	MEDIUM DENSE	4-8	M. STIFF						
30-60	DENSE	8-15	STIFF						
>50	VERY DENSE	15-30	V. STIFF						
		>30	HARD						
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE									
								BORING NO. GZA-141C	

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-141C	
				i. park Edgewater		SHEET 2 of 2	
				45 River Road		FILE NO. 41.0161318.00	
				Edgewater New Jersey		CHKD BY	

BORING CO. <u>Summit Drilling</u> DRILLING RIG			BORING LOCATION <u>See Exploration Location Plan</u>				
FOREMAN <u>Denis Crayon</u> TYPE OF DRILLING <u>HSA</u>			GROUND SURFACE ELEV. _____		DATUM _____		
GZA ENG. <u>D. Salerno</u>			DATE START <u>10/19/06</u>		DATE END <u>10/19/06</u>		

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb HAMMER FALLING 24 IN. CASING SIZE:				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	R K	STRATUM DESCRIPTION	FIELD TESTING
		SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
16.0		S7	24/10	14-16	4	Gray SILTY CLAY, trace f Gravel (organic material)		SILTY CLAY	
					2				
					2				
					2				
						EOB @ 16'.			

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT CONSISTENCY		REMARKS:
0-4	VERY LOOSE	<2	VERY SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	MEDIUM DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
>50	VERY DENSE	15-30	V. STIFF	
		>30	HARD	

NOTES: <div style="display: flex; justify-content: space-between;"> <div>1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL</div> <div>2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE</div> </div>	
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BORING NO. GZA-141C

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-142
SHEET 2 of 2
FILE NO. 41.0161318.00
CHKD BY _____

BORING CO. Summit
FOREMAN Ronnie
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/6/07 DATE END 6/6/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
18	5	4/1	16-20	S5: Gray, CLAY, some organics (roots) (sulfur odor).			24.2	
20	6			End of Boring 20'			98.2	
22	7							
24	8							
26								
28								
30								
32								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-142

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-142
SHEET 1 of 2
FILE NO. 41.0161318.00
CHKD BY

ENGINEERS AND SCIENTISTS

BORING CO. Summit
FOREMAN Ronnie
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/6/07 DATE END 6/6/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/3.8	0-4	S1: Top 3.1': Black, fine to medium SAND, some fine Gravel, little Silt, trace Organics (pieces of wood). Bottom 0.6': Gray, fine to medium SAND and fine GRAVEL.			0	1
4							0	
6	2	4/4	4-8	S2: Top 1.3': Black, fine to medium SAND, little Silt, little fine Gravel, trace yellow Organics (pieces of wood). Middle 0.4': Fine slag. Bottom 2.3': 1.1' Brown, (changing to 0.2' red-brown and 1' - yellow) SAND, some fine Gravel.			0	2
8							0	
10	3	4/2.9	8-12	S3: Top 0.9': Black, fine to medium SAND, some fine Gravel (potential slag). Middle 1.9': Brown to black, fine SAND, some Clay, some fine Gravel. Bottom 0.3': Black, CLAY, some fine Gravel.			0	
12							0	
14	4	4/1.7	12-16	S4: Top 1.6': Black, fine to medium SAND and fine GRAVEL (sulfur odor). Bottom 0.3': Gray, CLAY, some fine Gravel.			0	
16							0	

REMARKS: 1) Sample collected from 0-2' for TAL metals analysis
2) Sample collected from 5.4-7' for TAL metals and SPLP As analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-142

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-143

SHEET 1 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Joe
GZA ENGINEER A. Hough

BORING LOCATION
GROUND SURFACE ELEV. DATUM
DATE START 6/5/07 DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.


DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/3	0-4	S1: Brown to dark brown, fine to medium SAND, some fine Gravel, trace Silt.			0	1
							0	
							0	
4	2	4/1.8	4-8	S2: Top 1.5': Dark brown, Silty CLAY, trace fine Gravel. Bottom 0.3': Black, fine Gravel (potential slag).				
							0	
							0	
8	3	4/3	8-12	S3: Top 1.3': Black, fine GRAVEL (potential slag). Middle 1.3': Black, Clayey SILT, trace fine Gravel. Bottom 0.4': Hard pitch. Tip: Gray, Silty CLAY.			0	2
							0	
							3.1	
							2.1	
							0	
12	4	4/1	12-16	S4: Black, fine GRAVEL (potential slag).			0	
							0	
							0	
14								
16								

REMARKS: 1) Sample collected from 2.5-3' for TAL metals and SPLP As analysis
2) Sample collected from 7.5-8.5' for TAL metals and SPLP As analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-143

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-143 SHEET 2 of 2 FILE NO. 41.0161318.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. Summit				BORING LOCATION				
FOREMAN Joe				GROUND SURFACE ELEV.		DATUM		
GZA ENGINEER A. Hough				DATE START 6/5/07		DATE END 6/5/07		
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
18	5	4/4	18-20	S5: Top .4": Black, fine GRAVEL (possible slag). Bottom 2.6": Dark brown, Silty CLAY, trace fine Gravel, trace Organics (pieces of wood).			0	3
							2.2	
							0	
							0	
20				End of Boring 20'				
22	6							
24								
26	7							
28								
30	8							
32								
REMARKS: 3) Sample collected from 17.5-18' for TAL metals and SPLP As analysis								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-143		

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001


ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-144
SHEET 1 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit BORING LOCATION _____
FOREMAN Joe GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER A. Hough DATE START 6/5/07 DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.9	0-4	S1: Light brown, fine to medium SAND, trace Silt, some fine Gravel.			0	1 2
							0	
							0	
4	2	4/2.9	4-8	S2: Top 1.9': Brown, Silty CLAY. Bottom 1': Black, SAND, some fine Gravel.				0
								6.4
								0
								0
								0
8	3	4/3.2	8-12	S3: Top 1.8': Black, fine GRAVEL, some fine to medium Sand (possible slag). (.8-1.2' into the core: sulfur odor). Bottom 1': Hard pitch.				0
								0
								0
								0
								0
12	4	4/3	12-16	S4: Top 1.9': Black, fine GRAVEL, some fine to medium Sand (possible slag). Bottom 1.1': Gray, Silty CLAY, some Organics (pieces of wood).				0
								0
								0.1
								0
16								

REMARKS: 1) Sample collected from 0-2' for TAL metals analysis and SPLP As analysis
2) Sample collected from 2.5-3' for TAL metals analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-144

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-144
SHEET 2 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Joe
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/5/07 DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
18	5	4/1.2	15-20	S5: Black, fine GRAVEL, some fine to medium Sand (possible slag).			0 0	
20	6			End of Boring 20'				
22	7							
24	8							
26								
28								
30								
32								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-144

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-145
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit BORING LOCATION _____
FOREMAN Joe GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER A. Hough DATE START 6/5/07 DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.5	0-4	S1: Brown to dark brown, fine to medium SAND, some fine Gravel, trace Silt.			0	1
							0	2
4	2	4/2.1	4-8	S2: Top 0.9': Brown, Silty CLAY, some fine Sand, some fine Gravel. Bottom 1.2': Black, fine GRAVEL (possible slag, slight sheen).			0	
6	3			S3: Dark brown to black, fine GRAVEL, (possible slag, sheen).			0	
8	4	4/2	8-12	S4: Top 2.8': Black, fine GRAVEL (possible slag) (slight sheen). Bottom 1.2': Gray CLAY, trace fine Gravel, trace Organics (pieces of wood).			0	
							3.2	
10				End of Boring 16'			0	
12							0	
14							1.1	
16							0	

REMARKS: 1) Sample collected from 0-2' for TAL metals and SPLP As analysis
2) Sample collected from 2-2.5' for TAL metals analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-145

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-146
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Joe
GZA ENGINEER A. Hough

BORING LOCATION
GROUND SURFACE ELEV. DATUM
DATE START 6/5/07 DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.8	0-4	S1: Brown to dark brown, fine to medium SAND, some fine Gravel, trace Silt, trace Organics (pieces of wood)			0	1
4	2	4/2.3	4-8	S2: Top 1.3': Brown, Silty CLAY, some fine Gravel. Bottom 1': Dark brown, SAND, some fine Gravel, trace Silt.			0	2
8	3	4/2.1	8-12	S3: Top 2.3': Dark brown to black, fine GRAVEL, trace fine to medium Sand (possible slag) (0.9-1.3' into the core slight sheen). Bottom 0.8': Hard pitch.			0	
12	4	4/2.8	12-16	S4: Top 1': Black, fine GRAVEL, some black, fine to medium Sand (possible slag). Bottom 1.8': Gray, Silty CLAY, little Organics (pieces of wood).			4.9	
14							0	
16				End of Boring 16'			0	

REMARKS: 1) Sample collected from 0-2' for TAL metals and SPLP As analysis
2) Sample collected from 6.4-8.9' for TAL metal analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-146

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-147
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY _____

BORING CO. Summit
FOREMAN Ronnie
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/6/07 DATE END 6/6/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/3.6	0-4	S1: Top 2.2': Brown, fine to medium SAND, some fine Gravel, little Silt. Bottom 1.4': Dark brown, fine to medium SAND, little Silt, little fine Gravel.			0	1
							0	
							0	
							0	
4	2	4/4	4-8	S2: Top 2.8' and bottom 0.8': Brown, fine to medium SAND, some fine Gravel. Middle 0.4': Gray, Silty CLAY, little fine Gravel.			0	2
							0	
							0	
							0	
6	3			S3: Brown to black, fine to medium SAND, some fine Gravel.			0	
							0	
							0	
							0	
8	3	4/2.4	8-12	S3: Brown to black, fine to medium SAND, some fine Gravel.			0	
							0	
							0	
							0	
10	3			S3: Brown to black, fine to medium SAND, some fine Gravel.			0	
							0	
							0	
							0	
12	3			S3: Brown to black, fine to medium SAND, some fine Gravel.			0	
							0	
							0	
							0	
14	4	4/3.6	12-16	S4: Top 2.7': Dark brown to black, fine GRAVEL, little fine to medium Sand, trace Organics (pieces of wood). Bottom 0.8': Brown CLAY, some Organic (roots) (1' into the spoon slight sheen)			0	
							0	
							0	
							0	
16				End of Boring 16'			0	3

REMARKS: 1) Sample collected from 0-2' for TAL metals
2) Sample collected from 3.5-4' for TAL metals and SPLP As
3) Sample collected from 15.2-15.7' for TAL metal analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-147

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

I. Park Edgewater
45 River Rd
Edgewater, NJ


REPORT OF BORING NO. GZA-148

SHEET 1 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Ronnie
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/8/07 DATE END 6/6/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/3.5	0-4	S1: Top 1': Fine GRAVEL. Bottom 2.5': Brown to dark brown, fine to medium SAND, little Silt, little fine Gravel.			0	1 2
							0	
							0	
							0	
							0	
4	2	4/2.7	4-8	S2: Brown to dark brown, fine to medium SAND, some fine Gravel, little Silt (Bottom 0.3': sulfur odor).			0	
			0					
			0					
			0					
			0					
6	3	4/3.2	8-12	S3: Dark brown to black, fine to medium SAND and fine GRAVEL (possible slag) (sheen bottom 1').			0	
			3.4					
			4.3					
			0					
8	4	4/2.2	12-16	S4: Dark brown to black, fine to medium SAND and fine GRAVEL (possible slag, sulfur odor) (sheen bottom 0.6').			0	
10							0	
12							17.1	3
14							0	
16							0	

REMARKS: 1) Sample collected from 0-2' for TAL metals analysis
2) Sample collected from 2-2.5' for TAL metals analysis
3) Sample collected from 14.5-15.5' for PP+40, As, Pb, and As SPLP analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-148

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-148
SHEET 2 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Ronnie
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/6/07 DATE END 6/6/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
18	5	4/2.3	15-20	SS: Top 1.5': Dark brown to black, fine to medium SAND and fine GRAVEL (possible slag). Bottom 0.8': Gray CLAY and organics (roots) (sheen approximately 1' from bottom).			6.6 81.5 26.7 3.0	
20				End of Boring 20'				
22	6							
24								
26	7							
28								
30	8							
32								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-148

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-149	
				I. Park Edgewater		SHEET 1 of 1	
				45 River Rd		FILE NO. 41.0161318.00	
				Edgewater, NJ		CHKD BY _____	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN <u>Ronnie</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/6/07</u> DATE END <u>6/6/07</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.


DEPTH (FT)	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC					
2	1	4/3.1	0-4	S1: Brown, fine to medium SAND and fine GRAVEL.		0	1
4	2	4/3.8	4-8	S2: Top 2": Dark brown, fine to medium SAND, some fine Gravel. Middle 1.8": Black Gravel, some fine to medium SAND, trace Organics (pieces of wood) (possible slag, sulfur odor).	Σ	0	2
8	3	4/2.3	8-12	S3: Black GRAVEL, some fine to medium, Sand (possible slag). Bottom 0.4": Soft pitch.		0	
12	4	4/2.7	12-16	S4: Top 2.2": Black GRAVEL, some fine to medium Sand (possible slag). Bottom 0.5": Gray CLAY, some fine Gravel.		0	
16				End of Boring 16'		0	3

REMARKS: 1) Sample collected from 0-2' for TAL metals analysis.
 2) Sample collected from 5.4-5.9' for TAL metals and SPLP As analysis
 3) Sample collected from 15.5-16' for TAL metals analysis.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-149

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-150 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY		
BORING CO. <u>Summit</u>				BORING LOCATION _____				
FOREMAN <u>Ronnie</u>				GROUND SURFACE ELEV. _____		DATUM _____		
GZA ENGINEER <u>A. Hough</u>				DATE START <u>6/6/07</u>		DATE END <u>6/6/07</u>		
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE		DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC						
2	1	4/2.9	0-4	S1: Top 0.8': Fine GRAVEL, little fine to medium, gray Sand. Middle 1.5': Brown, fine to medium SAND, little Silt, little fine Gravel. Bottom 0.8': Gray, Silty CLAY.			0	1 2
							0	
							0	
4	2	4/2.8	4-8	S2: Top 0.8': Gray, Silty CLAY, little fine Gravel. Middle 2': Black GRAVEL, some fine to medium Sand (possible slag, sulfur odor). 1.3-1.5' from bottom: Hard pitch.			0	
							0	
							0	
							0	
8	3	4/2.3	8-12	S3: Black, fine GRAVEL, some fine to medium, black Sand (possible siag, sulfur odor).			0	
							11.1	
							7	
							5.3	
12	4	0/0	12-16	S4: No Recovery				
14								
16								
REMARKS: 1) Sample collected from 0-2' for TAL metals analysis 2) Sample collected from 2-2.5' for TAL metals and As SPLP analysis								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-150		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-150 SHEET 2 of 2 FILE NO. 41.0161319.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. <u>Summit</u>		BORING LOCATION _____						
FOREMAN <u>Ronnie</u>		GROUND SURFACE ELEV. _____			DATUM _____			
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/6/07</u>			DATE END <u>6/6/07</u>			
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE		DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC						
18	5	4/1.2	16-20	S5: Black GRAVEL, some fine to medium Sand (possible slag).				
20				End of Boring 20'			0	0
22	6							
24								
26	7							
28								
30	8							
32								
REMARKS:								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-150		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS			PROJECT I. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-151 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY	
BORING CO. <u>Summit</u>			BORING LOCATION _____			
FOREMAN <u>Ronnie</u>			GROUND SURFACE ELEV. _____		DATUM _____	
GZA ENGINEER <u>A. Hough</u>			DATE START <u>6/6/07</u>		DATE END <u>6/6/07</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2	0-4	S1: Top 1.2': Dark brown, fine to medium SAND and fine Gravel. Bottom 0.8': Brown SAND, some fine Gravel, little Silt.				1
4	2	4/3.1	4-8	S2: Top 1.7': Dark brown, fine to medium SAND, little Silt, little fine Gravel. Bottom 1.4': Black, fine to medium SAND and fine GRAVEL (possible slag, sulfur odor).	▼			2
6	2							
8	3	4/2.4	8-12	S3: Black, fine to medium SAND and fine GRAVEL, some hard pitch (possible slag).				
10	3							
12	4	4/3	12-16	S4: Top 0.8': Black, fine to medium SAND and fine GRAVEL. Bottom 2.2': Gray Silty CLAY, some Organics (pieces of wood).				3
14	4							
16				End of Boring 16'				

REMARKS: 1) Sample collected from 0-2' for TAL metal analysis
 2) Sample collected from 3.6-4.1' for TAL metals and As SPLP analysis
 3) Sample collected from 13.8-14.3' for TAL metal analysis

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-151

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-153	
				1. Park Edgewater		SHEET 1 of 1	
				45 River Rd		FILE NO. 41.0181318.00	
				Edgewater, NJ		CHKD BY	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/8/07</u> DATE END <u>6/8/07</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.4	0-4	S1: Top 2.1': Brown to dark brown, fine to medium SAND, some fine Gravel, little Silt. Bottom 0.3': Gray, fine to coarse SAND and fine GRAVEL, little Silt.			0	1
4	2	4/1.7	4-8	S2: Top 0.6': Gray to brown, fine to coarse SAND, some fine Gravel, little Silt. Bottom 1.1': Black, fine to coarse SAND and fine GRAVEL, little Organics (pieces of wood).	▽		0	2
6	3	4/3.1	8-12	S3: Top 1': Black, fine to coarse SAND and fine Gravel. Middle 1.1': Gray, Silty CLAY, some Organics (roots), (Hard pitch - 0.9-1.1' from bottom).			10.5	3
8	4			End of Boring 12'			0	4
10							0	
12							0	
14							0	
16							0	

REMARKS: 1) Sample collected from 0-2' for TAL metals analysis.
 2) Sample collected from 6.2-6.7' for TAL metals analysis.
 3) Sample collected from 7-8' for PP+40 and SPLP As analysis.
 4) Sample collected from 10.9-11.4' for TAL metals analysis.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-153

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

i. Park Edgewater

45 River Rd

Edgewater, NJ

REPORT OF BORING NO. GZA-154

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO.

Summit

BORING LOCATION

FOREMAN

Joe Neri

GROUND SURFACE ELEV.

DATUM


GZA ENGINEER

A. Hough

DATE START 6/5/07

DATE END 6/5/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5	1	2.5/5.0	0-5	S1: Gray to brown, fine to medium SAND, some fine Gravel, trace Silt, trace Organics (pieces of wood). Bottom 0.2' Red to orange, fine to medium SAND, trace Silt, little fine Gravel.			0	1,2
							0	
							0	
							0	
							0	
							0	
							0	
							0	
							0	
							0	
10	2	0.2/1.0	5-6	S2: Dark brown, fine to medium SAND, trace Silt, some fine Gravel (wet).			0	
				Refusal at 6'				
15	3							

REMARKS: 1) Sample collected from 0-2' for TAL metal analysis.
2) Pin broke on geoprobe; unable to advance sampler. Replaced geoprobe with a geoprobe 5410.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
3) PIN BROKE ON GEOPROBE, UNABLE TO ADVANCE SAMPLER. REPLACED WITH A GEOPROBE 5410.
4) SAMPLE COLLECTED FROM 0-2" FOR METAL ANALYSIS.



BORING NO. GZA-154

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-155

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO. Summit
FOREMAN Joe Neri
GZA ENGINEER M. Hayes

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START _____ DATE END _____

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
	1			Air rig through concrete slab to 2" bgs				
		3/0.8	2-5	S1: Concrete Fragments.			0	
							0	
5	2						0	
		5/1	5-10	S2: Black, fine to coarse SAND, little Silt, little fine Gravel.			0	
							0	
							0	
10	3							
		5/1.5	10-15	S3: Top 1': Black, fine to coarse SAND, little Silt, little fine Gravel. Bottom 0.5': Peat (wet, sheen).			0.4	
							5.2	
							13.4	
15				End of Boring 15'				

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-155

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-156 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY		
BORING CO. <u>Summit</u>		BORING LOCATION _____						
FOREMAN <u>Joe Neri</u>		GROUND SURFACE ELEV. _____		DATUM _____				
GZA ENGINEER <u>M. Hayes</u>		DATE START <u>6/8/97</u>		DATE END <u>6/8/07</u>				
SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5	1	5/3	0-5	S1: Top 1': Top soil, brick fragments. Middle 0.5': Black, fine to medium SAND, trace Silt. Bottom 0.5': Soft pitch.			0	
10	2	5/1.5	5-10	S2: Top 0.3': Soft pitch. Bottom 1.2': Brown to black, fine to coarse SAND, some Silt.			0	
15	3	5/1.9	10-15	S3: Gray, medium to coarse SAND (wood pieces) (wet).			0	

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-156

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
i. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-156
SHEET 2 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit BORING LOCATION _____
FOREMAN Joe Neri GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER M. Hayes DATE START 6/8/07 DATE END 6/8/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
20	4	5/4	15-20	S4: Gray, Silty CLAY.				
							0	
							0	
							0	
							0	
25	5			End of Boring 20'				
30	6							

REMARKS:

NOTES:



BORING NO. GZA-156

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-157

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO. Summit

BORING LOCATION

FOREMAN Travis

GROUND SURFACE ELEV.

DATUM

GZA ENGINEER A. Hough

DATE START 6/8/07

DATE END 6/8/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE		DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC						
2	1			S1: Brown to black, fine to coarse SAND and fine GRAVEL.			0 0.4 0	
4								
6	2			S2: Black, fine to coarse SAND and fine GRAVEL, little Silt.			0 0	
8								
10	3			S3: Top 2": Black, fine to coarse SAND and fine GRAVEL, little Silt. Bottom 0.7": Gray, Silty CLAY.			0 0 0	
12				End of Boring 12'				
14	4							
16								

REMARKS:

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-157

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-158	
				I. Park Edgewater		SHEET 1 of 1	
				45 River Rd		FILE NO. 41.0161318.00	
				Edgewater, NJ		CHKD BY	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/8/07</u> DATE END <u>6/8/07</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/1.1	0-4	S1: Brown to dark brown, fine to coarse SAND, some fine Gravel, little Silt, little Organics (pieces of wood)			0	
							0	
4	2	4/1.7	4-8	S2: Orange-brown to dark brown, fine to coarse SAND, some fine Gravel, little Silt.				
6							0	
							0	
							0	
8	3	4/0.9	8-12	S3: Top 0.7' Brown, fine to medium SAND and fine GRAVEL, little Silt. Bottom 0.2' Gray, Silty CLAY.			0	
10							0	
							0	
12	4			End of Boring 12'				
14								
16								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-158

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-159A	
				i. Park Edgewater		SHEET 1 of 1	
				45 River Rd		FILE NO. 41.0161318.00	
				Edgewater, NJ		CHKD BY	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/7/07</u> DATE END <u>6/7/07</u>	


SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.1	0-4	S1: Top 1': ASPHALT and fine GRAVEL. Middle 1.1': Black, fine to medium SAND and fine GRAVEL, little Silt. 1-1.2' into the spoon and Bottom 0.5': Soft pitch.			0	
							6.9	
							65	
4	2	4/0.8	4-8	S2: Top 0.8': Soft pitch. Bottom 0.2': Brown to gray, Silty CLAY, little fine Gravel.				
6	3	4/3.6	8-12	S3: Top 2.6': Gray to brown, Silty CLAY little fine Gravel, trace Organic (roots). Bottom 1': Black fine to medium SAND, some fine Gravel.			8.7	
							4.1	
							49.1	
							9.8	
8	4			End of Boring 12'			9.1	
							4.9	
							0	
							0	
10								
12								
14								
16								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-159A

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT I. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-159B SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. <u>Summit</u>		BORING LOCATION						
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV.		DATUM				
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/7/07</u>		DATE END <u>6/7/07</u>				
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R. K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/1.5	0-4	S1: Top 0.8': ASPHALT and fine GRAVEL. Next 0.7': Black Silty CLAY, little fine Gravel. Next 0.6': Black, fine GRAVEL, some black, fine to medium, Sand. Bottom 0.5': Soft pitch.				
4	2	4/3.5	4-8	S2: Top 2.1': Gray to brown CLAY, some fine Gravel, little Silt. Middle 0.4': Gray, fine to medium SAND, some Silt, some fine Gravel (sheen 1-1.5' from top).				
8	3			End of Boring 8'				
10	4							
12								
14								
16								
REMARKS:								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-159B		

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

I. Park Edgewater

45 River Rd

Edgewater, NJ

REPORT OF BORING NO. GZA-159C

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO.

Summit

BORING LOCATION

FOREMAN

Travis

GROUND SURFACE ELEV.

DATUM


GZA ENGINEER

A. Hough

DATE START 6/7/07

DATE END 6/7/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION* BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K									
	SAMPLE NO	PEN/REC	DEPTH (FT)														
2	1	4/1.6	0-4	S1: Top 0.9': ASPHALT and fine GRAVEL. Bottom 0.7': Gray, Silty CLAY, some fine Gravel.			0										
							0										
							0										
4																	
6	2	4/2.5	4-8	S2: Top 1.1': Fine GRAVEL, some gray, Silty CLAY. Bottom 1.4': Gray, Silty CLAY, some fine Gravel.									0				
8																0	
10	3			End of Boring 8'													
12																	
14	4																
16																	

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159C

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
L Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-159D

SHEET 1 of 1

FILE NO. 41.01B1318.00

CHKD BY _____

BORING CO. Summit

BORING LOCATION _____

FOREMAN Travis

GROUND SURFACE ELEV. _____


DATUM _____

GZA ENGINEER A. Hough

DATE START 6/7/07

DATE END 6/7/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.4	0-4	S1: Top 0.9': ASPHALT and fine GRAVEL. Bottom 1.3': Black, fine to medium SAND, little Silt, some fine Gravel.			0	
							0	
							0	
							0	
4	2	4/0.9	4-8	S2: Top 0.5': Soft ptych, some fine Gravel. Bottom 0.4': Gray to brown, Silty CLAY.				
6	3			End of Boring 8'			0	
							0	
8	4							
10								
12								
14								
16								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159D

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS


PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-159E
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit
FOREMAN Travis
GZA ENGINEER A. Hough

BORING LOCATION _____
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 6/7/07 DATE END 6/7/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/3	0-4	S1: Top 0.9': ASPHALT and fine GRAVEL. Middle 0.8': Brown, fine to medium SAND, some fine Gravel, little Silt, little pink, fine Sand. Bottom 1.3': Black, fine to medium SAND, some Silt, some Organics (pieces of wood).			0	
							0	
							0	
							0	
							0	
4	2	4/3.6	4-8	S2: Top 0.9': Brown to black, fine to medium SAND, some fine Gravel, little Silt. Middle 0.3': hard pitch. Bottom 2.3': Gray to brown, Silty CLAY.			0	
							0	
6							0	
							0	
							0	
8	3			End of Boring 8'				
10								
12								
14	4							
16								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159E

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. GZA-159F	
				I. Park Edgewater		SHEET 1 of 1	
				45 River Rd		FILE NO. 41.0161318.00	
				Edgewater, NJ		CHKD BY	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN <u>Travis</u>		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/7/07</u> DATE END <u>6/7/07</u>	



SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.6	0-4	S1: Top 0.5': ASPHALT and fine GRAVEL. Middle 0.9': Dark brown to black, fine to medium SAND, some Silt, some fine Gravel. Bottom 1.2': Hard pitch.			0	
4	2	4/4	4-8	S2: Top 1.6': Hard pitch. Bottom 2.4': Gray to brown, Silty CLAY, little fine Gravel.			0	
6	3			End of Boring 8'			0	
8	4						0	
10							0	
12							0	
14							0	
16							0	

REMARKS: First borehole attempt - refusal at 4' bgs. Boring moved 0.8' south.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-159F

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-159G SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. Summit		BORING LOCATION						
FOREMAN Travis		GROUND SURFACE ELEV.		DATUM				
GZA ENGINEER A. Hough		DATE START 6/7/07		DATE END 8/7/07				
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2	1	4/2.6	0-4	S1: Top 1.1': ASPHALT and fine GRAVEL. Middle 0.4': Dark brown, fine to medium SAND and fine GRAVEL, little Silt. Bottom 1.1': Black, Silty CLAY, little fine Gravel, little Organics (soft pitch) (at approximately 1.9-2.1' hard pitch).			0	
							0	
							21.1	
4				S2: Top 0.4': Black, Silty CLAY (soft pitch). Bottom 1.5': One large piece of wood, some black, Silty Clay, (soft pitch).				
6	2	4/1.9	4-8					
8				S3: Top 0.9': Black, Silty CLAY, some Organics (pieces of wood), trace fine Gravel (soft pitch). Bottom 2': Gray to brown, Silty CLAY.				
10	3	4/2.9	8-12					
12				End of Boring 12'				
14	4							
16								
REMARKS:								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-159G		

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT
I. Park, Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-159H
SHEET 1 of 2
FILE NO. 41.0161318.00
CHKD BY

BORING CO. Summit BORING LOCATION _____
FOREMAN Travis GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER A. Hough DATE START 6/7/07 DATE END 6/7/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/1.6	0-4	S1: Top 0.6': ASPHALT and fine GRAVEL. Bottom 1': Brown, fine to medium SAND, little Silt, some black soft pitch.			0	
							0	
4	2	4/0.3	4-8	S2: Less viscous pitch and soft pitch, some pieces of Wood, little fine Gravel.				
6	3			S3: Top 0.9': Less viscous pitch. Bottom 0.7': Gray to brown, Silty CLAY, little viscous pitch.			65.6	
		4/1.6	8-12					
8	4			S4: Top 0.9': Less viscous pitch (sheen). Bottom 0.4': Black, fine to medium SAND, some fine Gravel, little Silt (sheen).			2.5	
		4/2.3	12-16				18.3	
							65.3	
							53.5	
							33.7	
10								
12								
14								
16								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159H

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. GZA-159H
SHEET 2 of 2
FILE NO. 41.0161318.00
CHKD BY

ENGINEERS AND SCIENTISTS

BORING CO. Summit
FOREMAN Travis
GZA ENGINEER A. Hough

BORING LOCATION
GROUND SURFACE ELEV. DATUM
DATE START 6/7/07 DATE END 6/7/07

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
18	5	4/2.3	16-20	S5: Top 0.1' and bottom 0.2': Black, fine to medium SAND, and fine GRAVEL (sheen). Middle 2': Black CLAY, some less viscous P/A material, little soft pitch.			48.9	
							42.1	
							68.6	
20							74.1	
	6	4/4	20-24	S6: Top 3.6': Black, Silty CLAY, (soft pitch), some less viscous pitch. Bottom 0.4': Black SAND and fine GRAVEL.			7.4	
							2.7	
22							14.7	
							58.8	
	7			End of Boring 24'			10.3	
24							25.1	
26								
	8							
28								
30								
	8							
32								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159H

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. <u>GZA-159I</u>	
				I. Park Edgewater		SHEET <u>1 of 1</u>	
				45 River Rd		FILE NO. <u>41.0151318.00</u>	
		Edgewater, NJ		CHKD BY _____			

BORING CO.	Summit	BORING LOCATION	
FOREMAN	Matt	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	A. Hough	DATE START <u>6/11/07</u>	DATE END <u>6/11/07</u>

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC					
5	1	5/2.3	0-5	S1: Top 0.6': ASPHALT. Middle 1.4': Gray to brown, fine to medium SAND, little Silt, some fine Gravel, some Organics (pieces of wood). Bottom 0.3': Soft pitch.			
5	2	5/3.6	5-10	S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine Gravel. Bottom 0.8': Black, fine to coarse SAND and fine GRAVEL.			
10	3	5/2.8	10/15	S3: Top 2.1': Gray to Brown, Silty CLAY trace fine Gravel. Bottom 0.7': Black, fine to coarse SAND and fine GRAVEL.			
15				End of Boring 15'			

REMARKS:

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-159I

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

I. Park Edgewater

45 River Rd

Edgewater, NJ

REPORT OF BORING NO. GZA-159J

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO. Summit

BORING LOCATION

FOREMAN Matt

GROUND SURFACE ELEV.


DATUM

GZA ENGINEER A. Hough

DATE START 8/11/07

DATE END 8/11/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K	
	SAMPLE NO	PEN/REC	DEPTH (FT)						
5	1	5/2.5	0-5	S1: Top 1': Asphalt and fine Gravel. Bottom 1.5': Gray to black, fine to coarse SAND, some fine Gravel, little Organics (pieces of wood).			0		
							0		
							0		
							0		
	10	2	5/2.8	5-10			S2: Top 2': Gray to brown, Silty CLAY, some fine Gravel, trace Organics (pieces of wood). Bottom 0.8': Black, fine to coarse SAND and fine GRAVEL.		0
									0
									0
15	3	5/3.8	10-15	S3: Top 1.8': Gray to brown, Silty CLAY, trace fine Gravel. Bottom 2': Black, fine to coarse SAND and fine GRAVEL.	0				
					0				
					0				
End of Boring 15'					0				

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. GZA-159J

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

i. Park Edgewater

45 River Rd

Edgewater, NJ

REPORT OF BORING NO. GZA-160

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY

BORING CO.

Summit

BORING LOCATION

FOREMAN

Matt

GROUND SURFACE ELEV.

DATUM

GZA ENGINEER

A. Hough

DATE START 6/11/07

DATE END 6/11/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
6	1	5/2	0-5	S1: Top 0.5': ASPHALT and fine GRAVEL. Middle 0.9': Gray to brown, fine to medium SAND, little Silt. Bottom 0.6': Black to brown, fine to medium SAND, trace fine Gravel.				
10	2	5/2.6	5-10	S2: Top 0.5': Black to brown, Silty CLAY, little fine Gravel. Middle 1.4': Light gray to black, fine to coarse SAND and fine GRAVEL, little Organics (pieces of wood). Bottom 0.7': Gray, fine to medium SAND, some fine Gravel, little Silt, little metal pieces				
16	3	5/1.3	10-15	S3: Top 0.2': Black, fine to medium SAND and fine GRAVEL, little Silt. Top 1.1': Gray, Silty CLAY, some fine Gravel.				
End of Boring 15'								

REMARKS:

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.




BORING NO. GZA-160

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-160A SHEET 1 of 1 FILE NO. 41.0161316.00 CHKD BY			
BORING CO. <u>Summit</u>				BORING LOCATION _____					
FOREMAN <u>Matt</u>				GROUND SURFACE ELEV. _____		DATUM _____			
GZA ENGINEER <u>A. Hough</u>				DATE START <u>6/11/07</u>		DATE END <u>6/11/07</u>			
SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.									
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K	
	SAMPLE NO	PEN/REC	DEPTH (FT)						
5	1	5/2.1	0-5	S1: Top 0.7': ASPHALT. Middle 0.4': Fine GRAVEL, some fine to medium, black Sand. Bottom 1': Black fine to coarse SAND and pink to gray fine GRAVEL, little Silt.	▼		0		
							0		
							0		
							0		
							0		
10	2	5/4.5	5-10	S2: Top 2.2': Black to brown, Silty CLAY, some fine Gravel, little Organics (wood pieces). Middle 0.3': Soft pitch. Bottom 2': Gray, Clayey SILT, some fine Gravel.			0		
							0		
							0		
							0		
							0		
15	3	5/2.1	10-15	S3: Top 1.1': Gray, Silty CLAY, little fine Gravel. Bottom 1': Black fine to coarse SAND, some fine Gravel, little Silt.			0	1	
							0		
							0		
							0		
							0		
End of Boring 15'						0			
REMARKS: 1) Material very soft, went down with the weight of the probe									
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.									
						BORING NO. GZA-160A			

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. <u>GZA-161</u> SHEET <u>1 of 1</u> FILE NO. <u>41.0161318.00</u> CHKD BY _____		
BORING CO. <u>Summit</u>		BORING LOCATION _____						
FOREMAN <u>Matt</u>		GROUND SURFACE ELEV. _____		DATUM _____				
GZA ENGINEER <u>A. Hough</u>		DATE START <u>6/11/07</u>		DATE END <u>6/11/07</u>				
SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
	1	5/3	0-5	S1: Top 1': ASPHALT. Middle 1.1': Black, fine to medium SAND, some fine Gravel, some Organics (pieces of wood). Bottom 0.9': Black rubbery material.			0	
5	2	5/2.9	5-10	S2: Black, fine to medium SAND and fine GRAVEL, trace Organics (wood pieces) (black rubbery material).			0	
10	3	5/1.7	10-15	Top 0.5': Black, fine to medium SAND and fine GRAVEL. Bottom 1.2': Brown, Silty CLAY, some fine Gravel.			0	
15				End of Boring 15'				
REMARKS:								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. <u>GZA-161</u>		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS						PROJECT Park Edgewater 45 River Rd Edgewater, NJ			REPORT OF BORING NO. GZA-162 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY _____			
BORING CO. Summit FOREMAN Jeff GZA ENG. M. Hayes DRILLING TYPE _____						BORING LOCATION _____ GROUND SURFACE ELEV. _____ DATUM _____ DATE START 6/7/07 DATE END 6/7/07						
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN						GROUNDWATER READINGS						
						DATE	TIME	WATER	CASING	STABILIZATION TIME		
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.												
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K			
2.0		S1		0-2		Air rig to 2' through concrete slab.						
4.0	0	S2	24/12	2-4	10	S2: Medium dense, brown to black, fine to coarse SAND, little Silt (slightly wet at bottom)						
					9							
	0				11							
6.0		S3			8							
	0		24/12	4-6	18	S3: Top 0.5': Medium dense, brown, medium to coarse SAND, some Silt. Bottom 0.5': Medium dense, black fine SAND, some Silt (odor, but not pitch).						
					11							
8.0		S4			9							
	0				11							
	0		11/10	6-8	10	S4: Very dense, brown, medium to coarse SAND, some Silt.						
10.0		S5			50/5							
	0				10	S5: Top 4": Concrete. Bottom 2": Very dense, black, medium to coarse SAND (possible pitch material).						
					19							
12.0	0	S6			18							
					24							
	0		24/6	10-12	3	S6: Very dense, black, medium to coarse SAND, little fine Gravel, trace Silt.						
14.0		S7			24							
	0				17							
	0		24/12	12-14	9	S7: Top 2": Peat. Bottom 10": Medium dense, black, medium to coarse SAND, little fine Gravel, trace Silt						
					8							
					4							
					2							
GRANULAR SOILS BLOWS/FT. DENSITY						REMARKS: 1) Sample collected from 2-4' for TAL metal analysis.						
0-4 VERY LOOSE												
4-10 LOOSE												
10-30 MEDIUM DENSE												
30-50 VERY DENSE												
COHESIVE SOILS BLOWS/FT. CONSISTENCY												
<2 VERY SOFT						NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.						
2-4 SOFT												
4-8 MEDIUM STIFF												
8-15 STIFF												
15-30 VERY STIFF												
>30 HARD												
						BORING NO. GZA-162						

[illegible]

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. GZA-163 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY		
ENGINEERS AND SCIENTISTS								
BORING CO. <u>Summit</u>				BORING LOCATION _____				
FOREMAN _____				GROUND SURFACE ELEV. _____		DATUM _____		
GZA ENGINEER <u>A. Hough</u>				DATE START <u>6/8/07</u>		DATE END <u>6/8/07</u>		
SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
2	1	4/2.4	0-4	S1: Top 0.3': ASPHALT and fine GRAVEL. Middle 1.4' and bottom 0.3': Brown to black, fine to coarse SAND, some fine Gravel, little Silt changing to 0.4': Black, Silty CLAY, little fine Gravel.			0	1
							0	
							7.2	
4	2	4/2.8	4-8	S2: Dark brown to brown, fine to coarse SAND, some fine Gravel, little Silt.			0	2
							0	
							0	
							0	
8	3	4/1.8	8-12	S3: Top 0.8': Brown, Clayey SILT, some fine Gravel (sheen top 1.2'). Bottom 1': Black, fine to coarse SAND and fine GRAVEL.			0	
							3.3	
							1.3	
							0	
							0	
12	4	4/4	12-16	S4: Top 3.7': Dark brown to black, fine to coarse SAND and fine GRAVEL. Bottom 0.3': Gray, Silty CLAY, little fine Gravel (slight sheen).			0	3
							0	
							0	
							0	
16								
REMARKS: 1) Sample collected from 0-2' for TAL metals analysis 2) Sample collected from 7.5-8' for TAL metals and SPLP As analysis 3) Sample collected from 15.5-16' for TAL metals analysis								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.								
						BORING NO. GZA-163		

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT		REPORT OF BORING NO. <u>GZA-183</u>	
				i. Park Edgewater		SHEET <u>2 of 2</u>	
				45 River Rd Edgewater, NJ		FILE NO. <u>41.0161318.00</u> CHKD BY _____	

BORING CO. <u>Summit</u>		BORING LOCATION _____	
FOREMAN _____		GROUND SURFACE ELEV. _____ DATUM _____	
GZA ENGINEER <u>A. Hough</u>		DATE START <u>8/8/07</u> DATE END <u>8/8/07</u>	

SAMPLER: Geoprobe™ - 2" diameter, 48-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC					
18	5	4/D.2	18-20	SS: Gray, Silty CLAY, little fine Gravel.			
20							
22	6			End of Boring 20'			
24							
26	7						
28							
30	8						
32							

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
 MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. GZA-183

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO. MW-51A
	41.061318.00	SHEET 1
	Part Edgewater	FILE NO. 41.061318.00
45 River Road, Edgewater, New Jersey	CHKD BY: MH	

BORING CO.	Summit Drilling	BORING LOCATION	See Exploration Location Plan
FOREMAN		GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	Eugen Cela	DATE START	6/14/06
		DATE END	6/14/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2.0		S1					FILL	CAP		
4.0		S2								
6.0		S3	48/4	5-7	6	Medium dense brown sand with a little fraction of medium gravel (concrete fragments).			0 ppm	
8.0		S4	48/4	7-9	8	Medium dense brown sand with a little fraction of fine gravel (concrete fragments).			0 ppm	
10.0		S5	48/0	9-11	1	No recovery			0 ppm	
12.0		S6	48/1	11-13	WHO	Soft brown/black medium organic clay with a little fraction of medium sand and some concrete fragments.	CLAY		0 ppm	
14.0		S7	48/48	13-15	WHO	Soft brown/black medium organic clay with a little fraction of fine sand.			0 ppm	
16		S8				End of boring at 14ft				1.

GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE COHESIVE SOILS BLOWS/FT. CONSISTENCY 0-2 VERY SOFT 2-15 SOFT 15-30 MEDIUM STIFF 30-50 STIFF 50-80 VERY STIFF >80 HARD	Remarks: 1- Continues soil screening stated at 5 ft because of the concrete layer founded at the depth 2-4ft. 2- End of boring at 14ft. NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT 41-061318-00 Park Edgewater 45 River Road, Edgewater, New Jersey	REPORT OF BORING NO. MW-52A SHEET 1 FILE NO. 41-061318-00 CHKD BY: MH

BORING CO. Summit Drilling	BORING LOCATION See Exploration Location Plan
FOREMAN Steve Yotcoski	GROUND SURFACE ELEV. _____ DATUM _____
GZA ENGINEER Eugen Cela	DATE START 6/21/06 DATE END 6/21/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING
A 300 LB HAMMER FALLING 24 IN.

CASING SIZE:

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6'	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R
2.0						Air rotary at 6'	FILL	CAP		1.
							CONCRETE			
4.0							Depth of Water Table			
6.0										
		S1	48/0		WHO	No recovery			0 ppm	
					WHO					
					WHO					
					WHO					
		S2	48/0	8-10	1	No recovery			0.5 ppm	
				9-11	1					
					2					
10.0					1					
		S3			1	Soft brown/black CLAY, little medium Sand, some fine Gravel.			0.5 ppm	
			48/1	11-13	1		CLAY			
					1					
12.0					WHO					
		S4			WHO	Soft brown/black CLAY, little medium Sand.			0.6 ppm	
			48/48	13-15	WHO					
					WHO					
14.0					WHO					
		S5			WHO	Soft brown/black CLAY, little fine Sand.			0.5 ppm	
					WHO					
					WHO					
16.0					WHO					2.

GRANULAR SOILS BLOWS/FT. DENSITY	Remarks:
0-4 VERY LOOSE	1- Continous soil screening started at 6 ft because of the concrete layer founded at the depth 3-5ft.
4-10 LOOSE	2- End of boring at 16ft.
10-30 MEDIUM DENSE	
30-50 DENSE	
COHESIVE SOILS BLOWS/FT. CONSISTENCY	
<2 VERY SOFT	NOTES:
2-4 SOFT	1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
MEDIUM STIFF	2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF
STIFF	GROUNDWATER TABLEMAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE
15-40 VERY STIFF	MADE.
>30 HARD	


GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT 41 D161318.00	REPORT OF BORING NO. MW-63A
	Park Edgewater	SHEET
	45 River Road, Edgewater, New Jersey	FILE NO. 41 061318.00 CHKD BY MH

EXPLORER GZA ENGINEER	Summit Drilling Steve Yotcoski Eugen Cela	BORING LOCATION See Exploration Location Plan	GROUND SURFACE ELEV. DATE START 6/21/06	DATUM DATE END 6/21/06
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SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE NO.	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BIRMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	RK
2.0						Air rotary to 6'	FILL	CAP		1.
4.0							CONCRETE			
6.0										
		S1	48/0		WHO	No recovery			0 ppm	
					WHO					
					WHO					
					WHO					
		S2	48/0	8-10	1	No recovery			0.5 ppm	
				9-11	1					
10.0					2					
					1					
		S3	48/1	11-13	1	Soft brown/black CLAY, medium Sand, some Gravel.	CLAY		0.5 ppm	
					1					
12.0					WHO					
		S4	48/48	13-15	WHO	Soft brown/black CLAY, fine Sand.			0.6 ppm	
					WHO					
14.0					WHO					
		S5			WHO	Soft brown/black CLAY, little fraction of Sand.			0.5 ppm	
					WHO					
					WHO					
16.0					WHO					2.

GRANULAR SOILS BLOWS/FT DENSITY	Remarks: 1- Continues soil screening statred at 6 ft because of the concrete layer founded at the depth 3-5ft. 2- End of boring at 16ft.
0-4 VERY LOOSE	
4-10 LOOSE	
10-30 MEDIUM DENSE	
30-50 DENSE	
COHESIVE SOILS BLOWS/FT CONSISTENCY	
<2 VERY SOFT	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLEMAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
2-4 SOFT	
4-10 MEDIUM STIFF	
10-20 STIFF	
20-30 VERY STIFF	
>30 HARD	


GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001			PROJECT Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-107/MW-54 SHEET 1 of 1 FILE NO. 4-0101318.00 CHKD BY GW					
ENGINEERS AND SCIENTISTS										
GEOLOGICAL CO. Summit Drilling			BORING LOCATION See Exploration Location Plan							
FOREMAN John Murtha			GROUND SURFACE ELEV. DATUM							
GZA ENGINEER M. Hayes			DATE START 10/18/06 DATE END 10/18/06							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 3" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN			GROUNDWATER READINGS							
			DATE TIME WATER CASING STABILIZATION TIME							
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.										
CASING SIZE:										
DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2.0		S1	24/12	0-2	8	Brown-gray f-c SAND, some Silt, trace f Gravel	FILL	CAP	0	
				25	0					
				45						
				43						
4.0		S2	24/8	2-4	45	Black f-c SAND and hard pitch material changing after 4" brown-black f-c SAND, trace Silt.		2'	1.8	1
				25	2.3					
				15	4.3					
				20						
6.0		S3	24/12	4-6	15	Gray m-c SAND, some f Gravel, little Silt changing after 8" to Black f-c SAND (hard pitch).			18.5	2
				9	4.2					
				4						
				2						
8.0		S4	24/24	6-8	5	Gray-brown SILTY CLAY, changing after 1' to Black f-c SAND and hard pitch material.			7.4	
				9	28.8					
				8	26.8					
				7	24.4					
10.0		S5	24/6	8-10	11	Geotextile fabric with pitch material.			8.6	
				11						
				5						
				15						
12.0		S6	24/4	10-12	15	Black f-c SAND, little Silt and hard pitch.			0.4	
				11						
				4						
				2						
14.0		S7	24/18	12-14	1	Gray SILTY CLAY (organic material, slight black staining).	SILTY CLAY		0	
				1	15.5					
				1						
				1						
		S8	24/8	14-16	6	Brown SILT.			0	
				6						
				3						
				3						
GRANULAR SOILS BLOWS/FT DENSITY			REMARKS:							
0-4	VERY LOOSE		1. Sample taken at 3.5-4' at 8:46 for PCBs.							
4-10	LOOSE		2. Sample taken at 5-6' at 8:57 for PCBs.							
10-30	MEDIUM DENSE		3. Sample taken at 15.5-16' at 10:13 for PCBs.							
30-50	DENSE		4. End of boring @ 16'.							
COHESIVE SOILS BLOWS/FT CONSISTENCY			NOTES:							
2-4	VERY SOFT		1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.							
4-8	SOFT		2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF							
8-15	MEDIUM STIFF		GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE							
15-30	STIFF		MADE.							
30-50	VERY STIFF									
>50	HARD									
BORING NO. GZA-107/MW-54										

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT 1 Park Edgewater 45 River Road Edgewater New Jersey		REPORT OF BORING NO. GZA-97/MW-66A SHEET 1 of 1 FILE NO. 41.0161818.00 CHKD BY DW					
ENGINEERS AND SCIENTISTS											
BORING NO. Summit Drilling		BORING LOCATION See Exploration Location Plan									
FOREMAN Denis Crayon		GROUND SURFACE ELEV.				DATUM					
GZA ENGINEER D. Salerno		DATE START 10/13/06				DATE END 10/13/06					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN		GROUNDWATER READINGS									
		DATE		TIME		WATER		CASING		STABILIZATION TIME	
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.											
CASING SIZE:											
DEPTH (FT)	CASING BLOWS	SAMPLE NO.	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BIRMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K	
2.0		S1	20/9	0-2	10	6" asphalt.	FILL		0		
				12	0						
				15							
				100/2							
4.0		S2	5/0	2-4	100/5	HSA to 4'.					
6.0		S3	5/3	4-5	100/5	f GRAVEL, some c Sand (concrete and wood) HSA to 5'.			0		
8.0			0/0	5-7	100/0	EOB @ 5' (refusal on concrete).				1	
10.0											
12.0											
14.0											
GRANULAR SOILS BLOWS/FT. DENSITY						REMARKS:					
0-4 VERY LOOSE						1. Refusal on concrete at 5'. Moved boring location east approximately 4' to try for better recovery.					
4-10 LOOSE											
10-30 MEDIUM DENSE											
30-50 DENSE											
COHESIVE SOILS BLOWS/FT. CONSISTENCY											
<2 VERY SOFT						NOTES:					
2-4 SOFT						1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL					
4-15 MEDIUM STIFF						2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF					
8-15 STIFF						GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE					
15-30 VERY STIFF						MADE.					
>30 HARD											
						BORING NO. GZA-97/MW-66A					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO.
	1 park Edgewater	GZA-97/MW-56B
	45 River Road	SHEET 1 of 1
	Edgewater New Jersey	FILE NO. 41.0161318.00
		CHKD BY DW

CO.	Summit Drilling	BORING LOCATION	See Exploration Location Plan
FOREMAN	Denis Crayon	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	D. Salerno	DATE START	10/17/06
		DATE END	10/17/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2.0		S1	24/12	0-2	4	Brown f-m SAND, little Silt (2" hard pitch at top)				1
					5					
					15					
					18					
4.0		S2	10/9	2-4	18	Black m-c SAND, trace f Gravel (slight sheen and odor) (Hard pitch in bottom 3") HSA to 4'.				2
					50/4					
6.0		S3	10/8	4-6	28	Brown f-m SAND (brick and concrete) (concrete in bottom 6") Refusal at 5'.				
					50/4					
8.0		S4								
10.0		S5								
12.0		S6								
14.0		S7								

GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE	REMARKS: 1. Sample taken at 0-2' at 10:15 for PP metals. 2. Sample taken at 4-4.5' at 10:35 for PP metals.
COHESIVE SOILS BLOWS/FT. CONSISTENCY 0-4 VERY SOFT 4-8 SOFT 8-15 MEDIUM STIFF 15-30 STIFF 30-60 VERY STIFF 60-90 HARD	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO. MW-56
	park Edgewater	SHEET 1 of 1
	45 River Road	FILE NO. 41-0161318.00
	Edgewater New Jersey	CHKD BY DW

BO. CO.	Summit Drilling	BORING LOCATION	See Exploration Location Plan
FOREMAN	John Murtha	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	D. Salerno	DATE START	10/24/06
		DATE END	10/24/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME


DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REG	SAMPLE DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						Air rotary to 15'.		CAP		
2.0										
4.0										
8.0										
10.0										
12.0										
14.0										
15.0										

GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE COHESIVE SOILS BLOWS/FT. CONSISTENCY <2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF >30 HARD	REMARKS: 1. EOB @15'. NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS		PROJECT		REPORT OF BORING NO. GZA-129/MW 57A
		Ipsack Edgewater		SHEET 1 of 1
		45 River Road		FILE NO. 410181318.00
		Edgewater New Jersey		CHKD BY DW

CO.	Summit Drilling	BORING LOCATION See Exploration Location Plan	
FOREMAN	Denis Crayon	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	M. Hayes and D. Salerno	DATE START 10/13/06	DATE END 10/13/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME


DEPTH (FT)	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"					
2.0						Vacuum excavated to 5'.				
4.0		S1				Brown m-c SAND, some Silt, little f Gravel (concrete)			0	2 3
			24/6	5-7	9					
					7					
6.0		S2				Black m-c SAND, little Silt trace f Gravel			0	
					5					
					8					
8.0			14/3	7-9	5	Refusal at 8.5'. EOB @ 8.5'.				1
				9						
				100/2						
10.0										
12.0										
14.0										

GRANULAR SOILS BLOWS/FT DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE	REMARKS: 1. Attempted to drill through obstruction but not able to. 2. Sample taken at 5-5.5' at 9:25 for PP metals. 3. Water table observed at 5-5.5'.
COHESIVE SOILS BLOWS/FT CONSISTENCY 2-4 VERY SOFT 4-8 SOFT 8-15 MEDIUM STIFF 15-30 STIFF >30 VERY STIFF HARD	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO. GZA-126/MW-576
	Edgewater	SHEET 1 of 1
	43 River Road Edgewater, New Jersey	FILE NO. 741.0161318.00 CHKD BY: DW

CO.	Summit Drilling	BORING LOCATION See Exploration Location Plan	
FOREMAN	Denis Crayon	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	D. Salerno	DATE START 10/17/06	DATE END 10/17/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN	GROUNDWATER READINGS			
	DATE	TIME	WATER	CASING
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				
CASING SIZE:				

DEPTH (FT)	CASING BLOWS	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K						
		SAMPLE NO	PEN/REC	DEPTH (FT)						BLOWS/6'					
2.0		S1	24/9.5	0-2	35	Brown m-c SAND, little Silt, trace f Gravel (concrete bottom 2")				1					
					33										
					32										
					19										
4.0		S2	24/17	2-4	23	Brown m-c SAND changing after 2" to Black f-m SAND, little Silt, trace f Gravel (trace brick and concrete throughout)									
					21										
					13										
					10										
6.0		S3	24/13	4-6	45	Black f-m SAND, some Silt, trace f Gravel (concrete in bottom 5")								2	
					33										
					13										
					15										
8.0		S4	9/8	6-8	43	Black f-m SAND, little Silt (bottom 3" concrete and f gravel) Refusal on concrete. EOB @ 7.25'.									
					50/3										
10.0		S5													
12.0		S6													
14.0		S7													

GRANULAR SOILS BLOWS/FT. DENSITY	REMARKS:
0-4 VERY LOOSE	1. Sample taken at 0-2' at 9:00 for PP metals.
4-10 LOOSE	2. Sample taken at 4-4.5' at 9:07 for PP metals.
10-30 MEDIUM DENSE	
30-50 DENSE	
COHESIVE SOILS BLOWS/FT. CONSISTENCY	NOTES:
VERY SOFT	1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2-4 SOFT	2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF
4-8 MEDIUM STIFF	GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE
8-15 STIFF	MADE.
15-30 VERY STIFF	
30-60 HARD	

PROJECT

45 River Road

Edgewater New Jersey

REPORT OF BORING NO. MW-57

SHEET 1 of 1

FILE NO. 41.0161818.00

CHKD BY DW

ENGINEERS AND SCIENTISTS

BOI CO.

FOREMAN

GZA ENGINEER

Summit Drilling

John Murtha

D. Salerno

BORING LOCATION

See Exploration Location Plan

GROUND SURFACE ELEV.

DATUM

DATE START

10/24/06

DATE END

10/24/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF
A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING
A 300 LB HAMMER FALLING 24 IN.

CASING SIZE:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
						Air rotary to 15'.		CAP		
2.0								2'		
4.0										
6.0										
8.0										
10.0										
12.0										
14.0										
15.0								15'		1

GRANULAR SOILS
BLOWS/FT. DENSITY

0-4 VERY LOOSE

4-10 LOOSE

10-30 MEDIUM DENSE

30-50 DENSE

COHESIVE SOILS
BLOWS/FT. CONSISTENCY

<2 VERY SOFT

2-4 SOFT

4-8 MEDIUM STIFF

8-15 STIFF

15-30 VERY STIFF

>30 HARD

REMARKS:

1. EOB @15'.

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-57

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO. GZA-138/MW-59
	1 park Edgewater	SHEET 1 of 1
	45 River Road	FILE NO. 41.0161318.00
	Edgewater New Jersey	CHKD BY: DW

BORING CO.	Summit Drilling	BORING LOCATION	See Exploration Location Plan
FOREMAN	John Murtha	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	M. Hayes and D. Salerno	DATE START	10/11/06
		DATE END	10/11/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. CASING SIZE:	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
2.0		S1	18/16	0-2	2	topsoil		CAP		
					3	(2" concrete in bottom)		2'		
					5	(1" Hard pitch material)				
					50/0	HSA to 3'.				
4.0		S2					FILL			
			24/14	3-5	1	Brown f-c SAND. Little Silt (concrete)				
					1	changing after 6" to Black m-c SAND, little Silt				
6.0		S3			1					
					2					
			24/22	5-7	1	Brown m-c SAND. Little Silt changing after				
					1	4" to Black m-c SAND, little Silt, trace Clay				2
8.0		S4			1					3
					2					
			24/14	7-9	2	Brown-black m-c SAND, little Silt, trace Clay				
					2	(slight odor)				
10.0		S5			5					
					6					
			24/16	9-11	1	Gray m-c SAND, little Silt, trace f Gravel				
					1					
12.0		S6			2					
					2		SILTY CLAY			
			24/11	11-13	1	Gray SILTY CLAY (organic material)				
					1	(top 2" stained black)				
					1					
					1	EOB @ 13'.				
						EOB @ 13'.				
14.0										

GRANULAR SOILS BLOWS/FT. DENSITY	REMARKS: 1. PID not working. 2. Sample taken at 5-5.5' at 13:05 for PP metals. 3. Water table observed at 6'.
0-4 VERY LOOSE	
4-10 LOOSE	
10-30 MEDIUM DENSE	
30-50 DENSE	
COHESIVE SOILS BLOWS/FT. CONSISTENCY	
VERY SOFT	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
2-4 SOFT	
4-8 MEDIUM STIFF	
8-15 STIFF	
15-30 VERY STIFF	
>30 HARD	

CO. Summit Drilling

FOREMAN John Murtha

GZA ENGINEER M. Hayes

BORING LOCATION See Exploration Location Plan

GROUND SURFACE ELEV. _____ DATUM _____



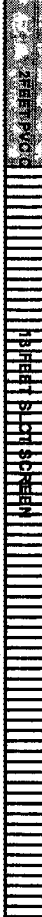
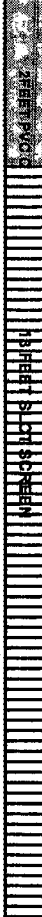
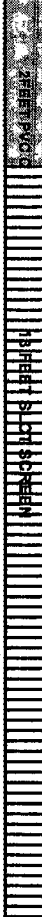
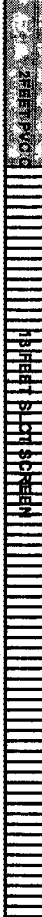
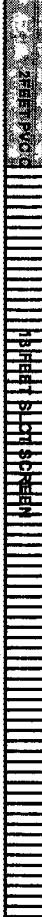
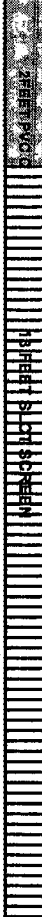
DATE START 10/19/06 DATE END 10/19/06

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF
A 2" SPLIT SPOON DRIVEN USING A 140 LB. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING
A 300 LB HAMMER FALLING 24 IN.
CASING SIZE: _____

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	CASING BLOWS	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
		SAMPLE NO.	PEN/REC	DEPTH (FT)	BLOWS/6"					
2.0		S1				HSA to 4'			2'	
4.0		S2				Brown-red r-c SAND, little Silt (soft pitch in shoe)				
6.0		S3	24/2	4-6	8	Brown-black f-c SAND, little Silt Soft pitch			0	152
					5					
					1					
8.0		S4	24/12	6-8						
10.0		S5								
12.0		S6								
14.0		S7							15'	

GRANULAR SOILS
BLOWS/FT. DENSITY

0-4 VERY LOOSE

4-10 LOOSE

10-30 MEDIUM DENSE

30-50 DENSE

COHESIVE SOILS
BLOWS/FT. CONSISTENCY

VERY SOFT

2-4 SOFT

4-8 MEDIUM STIFF

8-15 STIFF

15-30 VERY STIFF

30-60 HARD

REMARKS:

1. Sampled at 6-6.5' for BTEX + styrene

2. A 3" spoon was used for the 6-8' interval.

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-60

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

BO. CO.

Summit

FOREMAN

Eddy

GZA ENGINEER

Eugen Cela

PROJECT
I-park Edgewater
45 River Road
Edgewater, NJ

REPORT OF BORING NO. MW-61

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY MH

BORING LOCATION See Boring Location Plan

GROUND SURFACE ELEV.

DATUM

DATE START 1/31/07

DATE END 1/31/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5	1	60/30	0.5	Black Asphalt	Asphalt	<div>CAP</div> <div>2" PVC CASING</div> <div>2'</div> <div>1" SLOT SCREEN</div> <div>12.5'</div>	0.0 ppm	
			0.5-5	Gray, f-c SAND and Gravel, trace Silt (brick fragments), changing after 20" to black, fine to medium SAND, little Silt, trace fine Gravel.	FILL		5.4 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
10	2	60/20	5-10	Black, fine to medium SAND, little Silt, trace fine Gravel (first 8"), changing to gray, f-m SAND, some Silt, trace fine Gravel.			1.1 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
15	3	60/22	10-15	2" of Black CLAY, changing to 10" of gray Silty CLAY, changing to 10" of black, f-c SAND and Gravel.	Silty CLAY		0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
EOB @ 15'								

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. MW-61

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

PROJECT

park Edgewater

45 River Road

Edgewater, NJ

REPORT OF BORING NO. MW-62

SHEET 1 of 1

FILE NO. 41.0161318.00

CHKD BY: MH

BORING CO. Summit

BORING LOCATION See Boring Location Plan

FOREMAN Eddy

GROUND SURFACE ELEV. _____ DATUM _____

GZA ENGINEER Eugen Cela

DATE START 1/31/07 DATE END 1/31/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5				HSA to 16'		<div>CAP</div> <div>2" P.O. CASING</div> <div>14" SLOT SCREEN</div>		
10								
15								
16								

REMARKS: 1- EOB @ 16'.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. MW-62

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS

BORING CO. Summit
FOREMAN Eddy
GZA ENGINEER Eugen Cela

PROJECT
i-park Edgewater
45 River Road
Edgewater, NJ

REPORT OF BORING NO. MW-63
SHEET 1 of 1
FILE NO. 41.0161318.00
CHKD BY MH

BORING LOCATION See Boring Location Plan
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 1/31/07 DATE END 1/31/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5	1	60/50	5-10	10" of Dark-brown fine to medium SAND, little Silt, trace fine Gravel (brick fragments) changing after 30" to black pitch material.	FILL	<div><div>CAP</div><div>2 PVC CASING</div><div>10' SLOT SCREEN</div></div>	0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.8 ppm	
							0.8 ppm	
10	2	60/30	5-10	20" of black pitch material, changing to 10" of black f-m SAND, little fine Gravel (rock fragments), trace Silt.			0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.8 ppm	
							0.0 ppm	
12	3	24/3	10-12	2" of black, fine to coarse SAND and Gravel, changing to 1" of fine Gravel (rock fragments).	GRAVEL		0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
							0.0 ppm	
15				EOB @ 12' (refusal).				

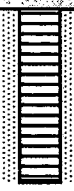
REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



BORING NO. MW-63

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-64 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY																															
BORING CO. <u>Summit</u> FOREMAN <u>Jeff</u> GZA ENG. <u>M. Hayes</u> DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>6/5/07</u> DATE END <u>6/5/07</u>																																	
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">GROUNDWATER READINGS</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				GROUNDWATER READINGS					DATE	TIME	WATER	CASING	STABILIZATION TIME																				
GROUNDWATER READINGS																																					
DATE	TIME	WATER	CASING	STABILIZATION TIME																																	
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K																												
2.0	0	S1	24/12	0-2	5	S1: Loose, brown, fine SAND, some Silt, trace fine Gravel, trace possible slag.			1																												
	0			3																																	
				5																																	
				4																																	
4.0	0	S2	24/7	2-4	2	S2: Medium dense, brown to black fine SAND, some Silt (mostly wet).																															
				10																																	
				5																																	
				10																																	
6.0	0	S3	24/20	4-6	4	S3: Medium dense, brown, fine SAND, some Silt (wet) Bottom 4" black, fine SAND, some Silt.																															
	0			9																																	
	3.6			12																																	
				20																																	
8.0	1.8	S4	24/20	6-8	14	S4: Very dense, brown to black, fine SAND, some Silt (wet, no slag).																															
	1.3			15																																	
	0.2			24																																	
				8																																	
10.0		S5	24/0	8-10	15	S5: No recovery																															
				9																																	
				5																																	
				10																																	
12.0	0	S6	24/14	10-12	10	S6: Top 5": Medium dense, brown, fine SAND, some Silt. Bottom 11": Medium dense, black, fine to coarse SAND, little Silt.																															
				9																																	
	0.5			6																																	
				4																																	
14.0	0.6	S7	24/19	12-14	4	S7: Loose, black, medium to coarse SAND (potential slag). Bottom 3" tar paper.																															
	0.6			WOH																																	
				WOH																																	
	1.2			WOH																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">GRANULAR SOILS</th> </tr> <tr> <th>BLOWS/FT. DENSITY</th> <th> </th> </tr> <tr> <td>0-4</td> <td>VERY LOOSE</td> </tr> <tr> <td>4-10</td> <td>LOOSE</td> </tr> <tr> <td>10-30</td> <td>MEDIUM DENSE</td> </tr> <tr> <td>30-50</td> <td>VERY DENSE</td> </tr> <tr> <th colspan="2">COHESIVE SOILS</th> </tr> <tr> <th>BLOWS/FT. CONSISTENCY</th> <th> </th> </tr> <tr> <td><2</td> <td>VERY SOFT</td> </tr> <tr> <td>2-4</td> <td>SOFT</td> </tr> <tr> <td>4-8</td> <td>MEDIUM STIFF</td> </tr> <tr> <td>8-15</td> <td>STIFF</td> </tr> <tr> <td>15-30</td> <td>VERY STIFF</td> </tr> <tr> <td>>30</td> <td>HARD</td> </tr> </table>						GRANULAR SOILS		BLOWS/FT. DENSITY		0-4	VERY LOOSE	4-10	LOOSE	10-30	MEDIUM DENSE	30-50	VERY DENSE	COHESIVE SOILS		BLOWS/FT. CONSISTENCY		<2	VERY SOFT	2-4	SOFT	4-8	MEDIUM STIFF	8-15	STIFF	15-30	VERY STIFF	>30	HARD	REMARKS: 1) Sample collected from 0-2' for TAL metals analysis; sample of slag saved. 2) Sample collected from 3.5-4' for TAL metals analysis.			
GRANULAR SOILS																																					
BLOWS/FT. DENSITY																																					
0-4	VERY LOOSE																																				
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NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.						BORING NO. MW-64																															

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT I.Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-64 SHEET 2 of 2 FILE NO. 41.0161318.00 CHKD BY																										
BORING CO. Summit FOREMAN Jeff GZA ENG. M. Hayes DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. DATUM DATE START 6/5/07 DATE END 6/5/07																												
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">GROUNDWATER READINGS</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				GROUNDWATER READINGS					DATE	TIME	WATER	CASING	STABILIZATION TIME															
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DATE	TIME	WATER	CASING	STABILIZATION TIME																												
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K																							
16.0	0.2	S8	24/4	14-16	5	S8: Very soft, black to brown, fine SAND, some Silt (slight green).																										
					WOH																											
					WOH																											
18.0	0.6	S9	24/21	16-18	3	S9: Medium stiff, Peat.																										
	0.74				3																											
	25.2				2																											
	25.4				3																											
20.0		S10				End of Boring 18'																										
22.0		S11																														
24.0		S12																														
26.0		S13																														
28.0		S14																														

GRANULAR SOILS	
BLOWS/FT.	DENSITY
0-4	VERY LOOSE
4-10	LOOSE
10-30	MEDIUM DENSE
30-50	VERY DENSE
COHESIVE SOILS	
BLOWS/FT.	CONSISTENCY
<2	VERY SOFT
2-4	SOFT
4-8	MEDIUM STIFF
8-15	STIFF
15-30	VERY STIFF
>30	HARD

REMARKS: 3) Sample at 17.5-18' for TAL metals analysis.

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-64

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT iPark Edgewater 45 River Rd. Edgewater, NJ		REPORT OF BORING NO. MW-65 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY		
BORING CO. <u>Summit</u> FOREMAN <u>Jeff</u> GZA ENG. <u>M. Hayes</u> DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>6/6/07</u> DATE END <u>6/6/07</u>				
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				GROUNDWATER READINGS				
				DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	FIELD TESTING	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K		
		SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"						
2.0	0	S1	24/7	0-2	5	S1: Medium dense, brown, fine to coarse SAND, trace Silt (trace concrete, brick fragments).		<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAP</div>	1		
	0				8						
	0				18						
					24						
4.0	0	S2	24/24	2-4	24	S2: Very dense, brown to gray, fine to coarse SAND, some Silt.					
	0				40						
	0				50						
	0				50						
6.0	0	S3	24/16	4-6	12	S3: Very dense, gray to black, fine to coarse SAND, trace Silt (little concrete fragments).					2
	0				31						
	0				19						
					19						
8.0	0.2	S4	24/16	6-8	13	S4: Medium dense, gray to black, fine to coarse SAND, some silt (wet)					
	1.7				17						
					12						
					12						
10.0	0	S5	24/24	8-10	12	S5: Medium dense, black, medium to coarse SAND Bottom 8": 2" Hard pitch changing to possible ash/slag.					
	0.5				12						
	1.2				13						
	12.7				11						
12.0	0	S6	24/6	10-12	8	S6: Medium dense, black, medium to coarse SAND, trace Silt, little fine Gravel (possible ash) (wet)					
					12						
					2						
					3						
14.0	0	S7	24/24	12-14	3	S7: Top 14": Loose, gray to black medium to coarse SAND, trace Silt. Bottom 10": Medium stiff, gray, Silty Clay (organics).			3		
	0				3						
	0				3						
	0				3						
End of Boring 14'											

GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 VERY DENSE	REMARKS: 1) Sample collected from 0-2' for TAL metals analysis. 2) Sample collected from 5.5-6' for PP+40 analysis. 3) Sample collected from 12.5-14' for TAL metals analysis.
COHESIVE SOILS BLOWS/FT. CONSISTENCY <2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF >30 HARD	

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.	BORING NO. MW-65
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GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT iPark Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-66 SHEET 1 of 1 FILE NO: 41-0161318.00 CHKD BY																					
BORING CO. <u>Summit</u> FOREMAN <u>Jeff</u> GZA ENG. <u>M. Hayes</u>				BORING LOCATION GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>6/6/07</u> DATE END <u>6/6/07</u>																							
DRILLING TYPE				GROUNDWATER READINGS																							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				DATE	TIME	WATER	CASING	STABILIZATION TIME															
				DATE	TIME	WATER	CASING	STABILIZATION TIME																			
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K																		
2.0	0	S1	24/19	0-2	9	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).		CAP	1																		
	0				38																						
	0				50																						
					40																						
4.0	0	S2	24/11	2-4	20	S2: Very dense, black to red, fine to coarse SAND, trace Silt.																					
	0				16																						
					15																						
					10																						
6.0	0	S3	24/2	4-6	15	S3: Medium dense, fine to coarse SAND, WOOD and fine GRAVEL.			2																		
					10																						
					12																						
					17																						
8.0	0	S4	24/12	6-8	12	S4: Medium dense, black, fine to coarse SAND, some fine Gravel, trace Silt (wet), (concrete/brick fragments).																					
					15																						
					10																						
					W O H																						
10.0	0	S5	24/12	8-10	5	S5: Very dense, black, fine to coarse SAND, trace Silt (little soft pitch).																					
					50/4																						
12.0	0	S6	24/13	10-12	5	S6: Soft, gray, Silty CLAY.			3																		
	0				1																						
	0				1																						
	0				1																						
14.0	0	S7	24/24	12-14	2	S7: Soft, gray, Silty CLAY.																					
	0				3																						
	0				1																						
	0				1																						
End of Boring 14'																											
GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 VERY DENSE COHESIVE SOILS BLOWS/FT. CONSISTENCY <2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF ≥30 HARD						REMARKS: 1) Sample collected from 0-2' for TAL metals analysis. 2) Sample collected from 6.5-7' for PP+40 analysis. 3) Sample collected from 11-11.5' for TAL metals analysis.																					
						NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.																					
						BORING NO. MW-66																					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT i. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-67 SHEET 1 of 1 FILE NO. 41.0181318.00 CHKD BY _____		
BO. NO.		Summit		BORING LOCATION				
FOREMAN		Matt Radd		GROUND SURFACE ELEV.		DATUM		
GZA ENGINEER		A. Hough		DATE START 6/11/07		DATE END 6/11/07		
SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.								
DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5	1			S1: Top 0.2': Brick. Middle 2.7': Brown, fine to coarse SAND and fine GRAVEL, little Silt. Bottom 0.6': Black, fine to coarse SAND and fine GRAVEL.		CAP	0	
		5/3.5	0.2-5.2					
10	2	5/2.3	5.2-10.2	S2: Top 0.3': Brown to black, fine to coarse SAND and fine GRAVEL. Bottom 2': Black, fine GRAVEL and fine to coarse SAND, little pieces of Wood (sheen at 8.4').			0	
15	3	1/0.8	10.2-11.2	S3: Gray, Silty CLAY. End of Boring 11.2'.			0	

REMARKS:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-67

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS	PROJECT	REPORT OF BORING NO.
	Park Edgewater	MW-68
	45 River Rd	SHEET 1 of 1
	Edgewater, NJ	FILE NO. 41.0161318.00
		CHKD BY

BORING CO. <u>Summit</u>	BORING LOCATION <u>See Boring Location Plan</u>
FOREMAN <u>Jeff</u>	GROUND SURFACE ELEV. _____ DATUM _____
GZA ENG. <u>M. Hayes</u>	DATE START <u>6/6/07</u> DATE END <u>6/6/07</u>
DRILLING TYPE _____	

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.	GROUNDWATER READINGS				
	DATE	TIME	WATER	CASING	STABILIZATION TIME

DEPTH (FT)	FIELD TESTING	SAMPLE				SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K
		SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"				
						HSA to 14'		CAP	
2.0									
4.0									
6.0									
8.0									
10.0									
12.0									
14.0									

GRANULAR SOILS BLOWS/FT. DENSITY 0-4 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE	REMARKS:
COHESIVE SOILS BLOWS/FT. CONSISTENCY <2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF >30 HARD	
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.	
BORING NO. MW-68	

GZA GEOENVIRONMENTAL OF NEW YORK				PROJECT Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-69 SHEET 1 of 1 FILE NO. 41.0161318.00 CHKD BY													
GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS																			
BORING CO. Summit FOREMAN Jeff GZA ENG. M. Hayes DRILLING TYPE				BORING LOCATION See Boring Location Plan GROUND SURFACE ELEV. DATUM DATE START 6/5/07 DATE END 6/5/07															
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				GROUNDWATER READINGS															
				DATE		TIME		WATER		CASING		STABILIZATION TIME							
DEPTH (FT)		FIELD TESTING		SAMPLE SAMPLE NO		PEN/REC		DEPTH (FT)		BLOWS/6"		SAMPLE DESCRIPTION BURMISTER CLASSIFICATION		STRATUM DESCRIPTION		EQUIPMENT INSTALLED		R K	
2.0												HSA to 15'				CAP			
4.0																			
6.0																			
8.0																			
10.0																			
12.0																			
15.0																			
GRANULAR SOILS BLOWS/FT. DENSITY				REMARKS:															
0-4 VERY LOOSE																			
4-10 LOOSE																			
10-30 MEDIUM DENSE																			
30-50 DENSE																			
COHESIVE SOILS BLOWS/FT. CONSISTENCY				NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.															
<2 VERY SOFT																			
2-4 SOFT																			
4-8 MEDIUM STIFF																			
8-15 STIFF																			
15-30 VERY STIFF																			
>30 HARD																			
				BORING NO. MW-69															

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT 1 Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-70 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY																					
BORING CO. Summit FOREMAN Jeff GZA ENG. M. Hayes DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. DATUM DATE START 6/7/07 DATE END 6/7/07																							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.						GROUNDWATER READINGS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		DATE	TIME	WATER	CASING	STABILIZATION TIME															
DATE	TIME	WATER	CASING	STABILIZATION TIME																							
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K																		
2.0	0.2	S1		0-2		S1: Air rig to 2' through concrete slab		CAP																			
4.0	2.3	S2	24/12	2-4	19	S2: Very dense, black, fine to coarse SAND (possible hard pitch).																					
	2.4				26																						
					18																						
					16																						
6.0	0	S3	24/12	4-6	20	S3: Very dense, black, fine to coarse SAND, some fine Gravel bottom. 0.2' Black, Silty CLAY (soft pitch).																					
	0				14																						
	0.4				25																						
					14																						
8.0	0	S4	24/9	6-8	7	S4: Hard, black, Silty CLAY, little pieces of Wood (soft pitch) (slight sheen).	V																				
	0				30																						
	0				17																						
	0				5																						
10.0	0.1	S5	24/3	8-10	3	S5: GRAVEL, some gray, fine to coarse Sand (sheen).																					
					2																						
					2																						
					3																						
12.0	0	S6	24/2	10-12	5	S6: Gray, Silty CLAY, little fine Gravel (sheen).																					
					4																						
					2																						
					2																						
14.0	0	S7	24/7	12-14	1	S7: Top 5": Very loose, black to gray, fine to coarse SAND and fine GRAVEL (possible slag) Bottom 2": Soft, gray, Silty CLAY, little fine Gravel (sheen).																					
	0				1																						
	0				1																						
	0				2																						

GRANULAR SOILS	
BLOWS/FT.	DENSITY
0-4	VERY LOOSE
4-10	LOOSE
10-30	MEDIUM DENSE
30-50	VERY DENSE
COHESIVE SOILS	
BLOWS/FT.	CONSISTENCY
<2	VERY SOFT
2-4	SOFT
4-8	MEDIUM STIFF
8-15	STIFF
15-30	VERY STIFF
>30	HARD


REMARKS: 1) Sample collected from 3.5-4' for PP+40 analysis.

NOTES:


1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-70

GZA GEOENGINEERING OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK NY 10001 ENGINEERS AND SCIENTISTS				PROJECT Park Edgewater 45 River Rd Edgewater, NJ				REPORT OF BORING NO. MW-70 SHEET 2 of 2 FILE NO. 41.0161318.00 CHKD BY			
BORING CO. Summit FOREMAN Jeff GZA ENG. M. Hayes DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. DATE START 6/7/07 DATE END 6/7/07							
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.						GROUNDWATER READINGS					R K
						DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED			
16.0	0	S8	24/9	14-16	10	S8: Gray, Silty CLAY, trace fine Gravel.					
	0			1							
	0			2							
	0			3							
18.0		S9				End of Boring 16'					
20.0		S10									
22.0		S11									
24.0		S12									
26.0		S13									
28.0		S14									
GRANULAR SOILS BLOWS/FT. DENSITY						REMARKS:					
0-4 VERY LOOSE											
4-10 LOOSE											
10-30 MEDIUM DENSE											
30-50 VERY DENSE						NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.					
COHESIVE SOILS BLOWS/FT. CONSISTENCY											
<2 VERY SOFT											
2-4 SOFT											
4-8 MEDIUM STIFF											
8-15 STIFF											
15-30 VERY STIFF											
>30 HARD						BORING NO. MW-70					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT Park Edgewater 45 River Rd. Edgewater, NJ		REPORT OF BORING NO. MW-71 SHEET 1 of 2 FILE NO. 41.0161318.00 CHKD BY			
BORING CO. <u>Summit</u> FOREMAN <u>Jeff</u> GZA ENG. <u>M. Hayes</u> DRILLING TYPE				BORING LOCATION GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>6/7/07</u> DATE END <u>6/7/07</u>					
SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				GROUNDWATER READINGS					
				DATE	TIME	WATER	CASING	STABILIZATION TIME	
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K
2.0	2.1	S1	10/10	0-2	30	S1: Very dense, black, fine to coarse SAND, some hard pitch, little Silt.		CAP	
	11.2				50/4				
4.0	0.5	S2	24/15	2-4	35	S2: Very dense, black, fine to coarse SAND and hard pitch.			
	1.2				35				
	8.3				17				
6.0		S3			12	S3: Very stiff, black, Silty CLAY, some soft pitch. Bottom 7": Red SAND and SILT (slightly wet).	▼		
	35.3			4-6	4				
	18.5				12				
8.0	53.2	S4			20	S4: Stiff, black, Silty CLAY, some soft pitch.			
				12					
	32.2			6-8	12				
10.0	14.6	S5			8	S5: Top 8": Very stiff, black, Silty CLAY and soft pitch. Bottom 6": Very stiff, red, fine to coarse SAND, trace Silt (trace brick and glass fragments).			
				5					
	10.4			1					
12.0	11.3	S6			16	S6: Hard, black, fine to coarse SAND, little pieces of hard pitch, trace Silt.			
	8.1			20					
	3.6			10-12	6				
14.0	6.2	S7			12	S7: Very dense, brown, fine to coarse SAND, little Silt (slight sheen, wet).			
				36					
	1.9			12-14	30				
					50/4				
GRANULAR SOILS BLOWS/FT. DENSITY				REMARKS:					
0-4 VERY LOOSE									
4-10 LOOSE									
10-30 MEDIUM DENSE									
COHESIVE SOILS BLOWS/FT. CONSISTENCY				NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.					
<2 VERY SOFT									
2-4 SOFT									
4-8 MEDIUM STIFF									
8-15 STIFF									
15-30 VERY STIFF									
>30 HARD				BORING NO. MW-71					

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 ENGINEERS AND SCIENTISTS				PROJECT 1. Park Edgewater 45 River Rd Edgewater, NJ		REPORT OF BORING NO. MW-71 SHEET 2 of 2 FILE NO. CHKD BY																										
BORING CO. <u>Summit</u> FOREMAN <u>Jeff</u> GZA ENG. <u>M. Hayes</u>				BORING LOCATION GROUND SURFACE ELEV. _____ DATUM _____ DATE START <u>6/7/07</u> DATE END <u>6/7/07</u>																												
DRILLING TYPE SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN.				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">GROUNDWATER READINGS</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>STABILIZATION TIME</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				GROUNDWATER READINGS					DATE	TIME	WATER	CASING	STABILIZATION TIME															
GROUNDWATER READINGS																																
DATE	TIME	WATER	CASING	STABILIZATION TIME																												
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	R K																							
16.0		S8	24/0	14-16	8	S8: No recovery (wood in tip) (sheen coating outside of spoon).																										
					10																											
					8																											
					4																											
18.0	48.6	S9	24/4	16-18	12	S9: Hard, brown Silty CLAY (sheen).																										
					17																											
					18																											
					13																											
20.0	6.7	S10	24/7	18-20	12	S10: Very dense, gray, fine to coarse SAND and fine GRAVEL.																										
					15																											
					17																											
					7																											
22.0		S11	24/2	20-22	23	S11: Fine GRAVEL.																										
					28																											
					7																											
					17																											
24.0	2.4	S12	24/7	22-24	37	S12: Hard, black Silty CLAY, some soft pitch.																										
					42																											
					10																											
					4																											
26.0	0.0	S13	24/24	24-26	3	S13: Medium stiff, gray, Silty CLAY.																										
					3																											
					4																											
					6																											
28.0		S14				End of Boring 26.0'																										

GRANULAR SOILS	
BLOWS/FT.	DENSITY
0-4	VERY LOOSE
4-10	LOOSE
10-30	MEDIUM DENSE
30-50	VERY DENSE
COHESIVE SOILS	
BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
2-4	SOFT
4-8	MEDIUM STIFF
8-15	STIFF
15-30	VERY STIFF
>30	HARD

REMARKS:

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-71

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001

ENGINEERS AND SCIENTISTS


PROJECT
I. Park Edgewater
45 River Rd
Edgewater, NJ

REPORT OF BORING NO. MW-72
SHEET 1 of 1
FILE NO. 41.0181318.00
CHKD BY

BC CO. Summit
FOREMAN Joe Neiri
GZA ENGINEER M. Hayes

BORING LOCATION
GROUND SURFACE ELEV.
DATE START 6/8/07 DATE END 6/8/07

SAMPLER: Geoprobe™ - 2" diameter, 60-inch long, clear acetate liner, installed with a hydraulic hammer.

DEPTH (FT)	SAMPLE			SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING	R K
	SAMPLE NO	PEN/REC	DEPTH (FT)					
5				Air rig through concrete slab to 2' bgs.		<div>CAP</div> 		
	1	3/1.2	2-5	S1: Top 1" Brown, fine to coarse SAND, little Silt (wet). Borrom 1.1": Black fine to medium SAND, little Silt (some fine, black material, possible slag/hard pitch).				
	2	5/1	5-10	S2: Gray, medium to coarse SAND, some Silt (wet)				
10								
3	5/0.8	10-15	S3: Gray, medium to coarse SAND, some Silt (wet) (wood at tip).					
15			End of Boring 15'					

REMARKS:

- 1) Sample collected from 4.5-5' for PP+40 analysis.
- 2) Refusal at 15'.
- 3) Highest PID from a piece of wood at the tip.

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO. MW-72

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-16
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): 10
Final Boring Depth (ft.): 10
Date Start/Finish: 8/2/2007 - 8/2/2007
Datum:

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
5	S-1	0-10	10/8.2	0	S-1 : Dark gray, Silty CLAY.	CH	1-2			
10					End of exploration at 10 feet.					10
15										
20										
25										
30										

REMARKS

- 1-2.
1. Sample collected 0-0.5 feet bgs.
2. Surface water sample collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-16

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-17
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 10
Date Start/Finish: 8/2/2007 - 8/2/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burnister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen/ Rec.	PID (ppm)						
5	S-1	0-10	10/8.9	0	S-1 : Dark gray, Silty CLAY.	CH	1-2		CLAY	10
10					End of exploration at 10 feet.					
15										
20										
25										
30										

REMARKS

- 1-2.
1. Sample collected at 0-0.5 feet bgs.
2. Surface water samples collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-17

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-18
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): 10
Final Boring Depth (ft.): 10
Date Start/Finish: 8/2/2007 - 8/2/2007
Datum:

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
5	S-1	0-10	10/9.2	0	S-1 : Dark gray, Silty CLAY, trace pieces of shells.	CH	1		CLAY	10
10					End of exploration at 10 feet.					
15										
20										
25										
30										

REMARKS

1. Sample collected at 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-18

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-19
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 10
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Sampler used throughout unless otherwise noted on the log.

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
	S-1	0-10	10/8.9	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	CH	1-3			
5										
10									CLAY	10
15					End of exploration at 10 feet.					
20										
25										
30										

REMARKS

- 1-3.
1. Sample collected at 0-0.5 feet bgs.
2. Surface water sample collected at this location.
3. Duplicate surface water sample collected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-19

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-20
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 10
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
5	S-1	0-10	10/8.4	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	CH	1-2		CLAY	10
10					End of exploration at 10 feet.					
15										
20										
25										
30										

- REMARKS**
- 1-2.
1. Sample collected from 0-0.5 feet bgs.
2. Duplicate sediment sample collected from 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-20

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-21
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): 10 **Datum:**
Final Boring Depth (ft.):
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
0	S-1	0-10	10/9.6	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	CH	1-2			
5									CLAY	
10					End of exploration at 10 feet.					10
15										
20										
25										
30										

REMARKS

- 1-2.
1. Sediment sample collected from 0-0.5 feet bgs.
2. Surface water sample collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-21

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-23
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 10
Date Start/Finish: 8/2/2007 - 8/2/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
5	S-1	0-10	10/8.2	0	S-1 : Dark gray, Silty CLAY, trace pieces of shells.	CH	1-2		CLAY	10
10					End of exploration at 10 feet.					
15										
20										
25										
30										

REMARKS

- 1-2.
1. Surface water collected at this location.
2. Sample collected at 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-23

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-24
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 3.9
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
	S-1	0-3.9	3.9/9.6	0	S-1 : Dark gray, Silty CLAY, little fine Gravel.	CH	1		CLAY	3.9
5					End of exploration at 3.9 feet.					
10										
15										
20										
25										
30										

REMARKS

1. Sample collected from 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-24

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-25
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): Datum:
Final Boring Depth (ft.): 10
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burnister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
	S-1	0-10	10/9.1		S-1 : Dark gray, Silty CLAY.	CH	1			
				0						
				0						
				0						
5				11.7					CLAY	
				3.0						
				5.6						
				10.4						
				4.5						
				0						
10				0						
				0						
				0						10
					End of exploration at 10 feet.					
15										
20										
25										
30										

REMARKS

1. Sheen around boat when sample collected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-25

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC
Supplemental Remedial Investigation Report
45 River Road
Edgewater, NJ

BORING NO.: SED-26
SHEET: 1 of 1
PROJECT NO: 41.0161318.00
CHECKED BY: MKH

GZA Inspector: A. Hough
Drilling Co.: Aqua Survey
Foreman: Mark Padover
Type of Drill Rig:

Drilling Method: Vibracore
Auger/Casing:
O.D./I.D Dia (in.):

Boring Location (Lat./Long.):
Ground Surface Elev. (ft.): 10 **Datum:**
Final Boring Depth (ft.):
Date Start/Finish: 8/1/2007 - 8/1/2007

Sampler Type: SS
Sampler I.D. (in.): 2.0
Sampler Length (in.): 24

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Sampler used throughout unless otherwise noted on the log.

Depth (ft)	Sample				Sample Description Modified Burmister	USCS	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)						
5	S-1	0-10	10/8	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	CH				
10										10
15					End of exploration at 10 feet.					
20										
25										
30										

REMARKS

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-26

11/28/2006

Clear water in tubing after 10 minutes; at 1305 10 gallons purged; sample taken at 1330 for PCBs.

DATE SAMPLED:

11/23/2006

Sample taken at 1530 for PP+40.

COLUMN OF WATER IN WELL:

Depth to Bottom (ft) - Static Water Level (ft)

$$= 15.00 - 5.79$$

Water Column (T): 9.21 (ft)

SCREENED INTERVAL:

2-15'

PURGE DEPTH (ft):

11.7

PURGE RATE (ml/min):

100-500

SAMPLER:

DW

DATE SAMPLED:

11/27/2006

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

Sulfur odor; sample taken 1350 for As and Pb.

Pungent (sulfur-like) odor; Black water in tubing at the beginning of sampling; Water became light yellow in tubing after 40 minutes of purging; Sample taken at 1530 for PP metals.

COLUMN OF WATER IN WELL:

Depth to Bottom (ft) - Static Water Level (ft)

$$= 12.35 - 5.34$$

Water Column (T): 7.01 (ft)

SCREENED INTERVAL:

PURGE DEPTH (ft):

PURGE RATE (ml/min):

SAMPLER:

DATE SAMPLED:

2-12'

8.3

100-500

DW

11/28/2006

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

At 0945 10 gallons purged; sample taken at 1000 for As and Pb.

Water Column (T): 9.17 (ft)

DATE SAMPLED:

11/28/2006

NOTES AND OBSERVATIONS: Took sample at 1105 before water quality parameters stabilized due to a drop in the water table; purged approx 5 gallons from well.

COLUMN OF WATER IN WELL:

Depth to Bottom (ft) - Static Water Level (ft)

$$= \frac{14.80}{1.05} - \frac{11.45}{1.05}$$

Water Column (T): 3.35 (ft)

SCREENED INTERVAL:

PURGE DEPTH (ft):

PURGE RATE (ml/min):

SAMPLER:

DATE SAMPLED:

3-12'

12.5'

100-500

Dean Walcott

2/16/2007

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

Sample taken before water quality parameters stabilized due to limited water column height; water column gauged for product, no product detected.

COLUMN OF WATER IN WELL:

Depth to Bottom (ft) - Static Water Level (ft)

$$= \frac{15.41}{1.05} - \frac{3.7}{1.05}$$

Water Column (T):	11.71 (ft)
-------------------	------------

SCREENED INTERVAL:

PURGE DEPTH (ft):

8.71'

PURGE RATE (ml/min):

100-500

SAMPLER:

Dean Walcott

DATE SAMPLED:

2/15/2007

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

Non-product detected in well; slight sheen observed in purge water.

Depth to Bottom (ft) - Static Water Level (ft)
$$= 15.41 - 3.7$$

Water Column (T): 11.71 (ft)

PURGE DEPTH (ft):

8.71'

100-500

Dean Walcott

2/15/2007

WATER QUALITY:

[illegible]

NOTES AND OBSERVATIONS:

T amount of product detected on surface of the water table; no pitch material observed in purge water.

Depth to Bottom (ft) - Static Water Level (ft)

Water Column (T): 1.99 (ft)

PURGE DEPTH (ft):

SAMPLER:

DATE SAMPLED:

2-6'

8.3

100-500

Dean Walcott

11/23/2006

[illegible]

Black water observed with a sulfur like odor; sample taken at 1100 for PP+40

CATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity**

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/21/2007</u>				Field Personnel: <u>Steve Schulze</u>			
Weather: <u>59°F Sun</u>				Job # <u></u>			

Monitoring Well #: <u>MW-27</u>	Well Depth: <u>12.63</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):	Background: <u>0.0</u>	Pump Intake Depth: <u>9.75</u> ft below TOC
	Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>4.73</u> ft below TOC
	Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0745	X		7.50	NA	16.6	NA	6700	NA	1.71	NA	-137.1	NA	59.6	NA	320	4.73
0750	X		6.95	-0.55	15.6	-1.0	4540	-2160	0.64	-1.07	-153.1	-16.0	33.2	-26.4	320	4.73
0755	X		7.02	0.07	16.2	0.6	3040	-1500	0.48	-0.16	-162.4	-9.3	10.21	-22.99	320	4.73
0800	X		7.05	0.03	16.3	0.1	2630	-410	0.33	-0.15	-183.9	-21.5	3.77	-6.44	320	4.73
0805	X		7.05	0.00	16.4	0.1	2570	-60	0.29	-0.04	-193.4	-9.5	2.37	-1.40	320	4.73
0810	X		7.04	-0.01	16.5	0.1	2530	-40	0.25	-0.04	-204.6	-11.2	2.13	-0.24	320	4.73
0815	X		7.02	-0.02	16.7	0.2	2510	-20	0.23	-0.02	-214.9	-10.3	1.71	-0.42	320	4.73
0820	X		7.00	-0.02	16.8	0.1	2470	-40	0.22	-0.01	-222.8	-7.9	1.76	0.05	320	4.73
0825	X		6.98	-0.02	16.7	-0.1	2480	10	0.22	0.00	-233.1	-10.3	1.79	0.03	320	4.73
0830	X		6.96	-0.02	16.8	0.1	2470	-10	0.23	0.01	-240.3	-7.2	1.71	-0.08	320	4.73
0835	X		6.94	-0.02	16.7	-0.1	2440	-30	0.23	0.00	-247.0	-6.7	1.74	0.03	320	4.73
0840	X		6.91	-0.03	16.8	0.1	2420	-20	0.23	0.00	-254.7	-7.7	1.80	0.06	320	4.73
0845	X		6.90	-0.01	16.8	0.0	2410	-10	0.25	0.02	-256.9	-2.2	1.76	-0.04	320	4.73
0850		X	6.90	0.00	16.9	0.1	2410	0	0.24	-0.01	-259.6	-2.7	1.73	-0.03	320	4.73

Comments: Pump on @ 0743 Sample time: 0846

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/21/2007</u>				Field Personnel: <u>Steve Schulze</u>			
Weather: <u>72°F Sun</u>				Job #: _____			

Monitoring Well #: <u>MW-5</u>	Well Depth: <u>12.36</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):		Background: <u>0.0</u>	Pump Intake Depth: <u>10.0</u> ft below TOC
		Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>4.96</u> ft below TOC
		Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0931	X		6.81	NA	17.2	NA	5970	NA	0.82	NA	-132.8	NA	121.0	NA	300	5.04
0936	X		6.87	0.06	15.2	-2.0	4740	-1230	0.46	-0.36	-169.1	-36.3	69.7	-51.3	300	5.04
0941	X		6.92	0.05	15.6	0.4	3200	-1540	0.55	0.09	-168.8	0.3	44.2	-25.5	300	5.04
0946	X		6.78	-0.14	16.1	0.5	1837	-1363	0.66	0.11	-126.8	42.0	12.8	-31.4	300	5.04
0951	X		6.64	-0.14	16.0	-0.1	1312	-525	0.51	-0.15	-110.1	16.7	6.48	-6.32	300	5.04
0956	X		6.47	-0.17	16.3	0.3	1226	-86	0.51	0.00	-86.0	24.1	14.0	7.5	300	5.04
1001	X		6.34	-0.13	16.2	-0.1	1195	-31	0.51	0.00	-71.5	14.5	15.1	1.1	300	5.04
1006	X		6.39	0.05	16.2	0.0	1133	-62	0.49	-0.02	-67.4	4.1	7.21	-7.89	300	5.04
1011	X		6.43	0.04	16.2	0.0	1115	-18	0.47	-0.02	-66.8	0.6	5.64	-1.57	300	5.04
1016	X		6.52	0.09	16.2	0.0	1089	-26	0.43	-0.04	-67.6	-0.8	2.97	-2.67	300	5.04
1021	X		6.53	0.01	16.3	0.1	1083	-6	0.41	-0.02	-67.7	-0.1	2.17	-0.80	300	5.04
1026	X		6.56	0.03	16.3	0.0	1072	-11	0.39	-0.02	-69.2	-1.5	1.91	-0.26	300	5.04
1031	X		6.58	0.02	16.4	0.1	1064	-8	0.38	-0.01	-70.9	-1.7	1.94	0.03	300	5.04
1036	X		6.74	0.16	16.5	0.1	1060	-4	0.33	-0.05	-82.3	-11.4	2.17	0.23	300	5.04
1041	X		6.77	0.03	16.4	-0.1	1061	1	0.35	0.02	-92.5	-10.2	2.06	-0.11	300	5.04
1046	X		6.73	-0.04	16.5	0.1	1060	-1	0.32	-0.03	-96.4	-3.9	2.00	-0.06	300	5.04
1051	X		6.66	-0.07	16.5	0.0	1055	-5	0.33	0.01	-92.1	4.3	2.20	0.20	300	5.04
1056	X		6.71	0.05	16.5	0.0	1053	-2	0.33	0.00	-90.7	1.4	2.17	-0.03	300	5.04
1101		X	6.70	-0.01	16.5	0.0	1052	-1	0.32	-0.01	-88.1	2.6	2.19	0.02	300	5.04

Comments: Pump on @ 0929 Sample time: 1057

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/21/2007</u>				Field Personnel: <u>Steve Schulze</u>			
Weather: <u>79°F Sun</u>				Job #: _____			

Monitoring Well #: <u>MW-56</u>	Well Depth: <u>13.79</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):	Background: <u>0.0</u>	Pump Intake Depth: <u>9.5</u> ft below TOC
	Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>4.50</u> ft below TOC
	Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1339	X		7.80	NA	20.5	NA	9050	NA	0.89	NA	-196.2	NA	87.7	NA	280	4.51
1344	X		9.03	1.23	18.3	-2.2	5560	-3490	0.54	-0.35	-292.4	-96.2	114	26.3	280	4.53
1349	X		9.93	0.90	18.2	-0.1	4340	-1220	0.21	-0.33	-326.1	-33.7	94.6	-19.4	280	4.56
1354	X		10.14	0.21	18.1	-0.1	4230	-110	0.13	-0.08	-351.8	-25.7	71.3	-23.3	280	4.56
1359	X		10.17	0.03	18.1	0.0	4120	-110	0.12	-0.01	-351.4	0.4	57.2	-14.1	280	4.56
1404	X		10.06	-0.11	18.1	0.0	3960	-160	0.09	-0.03	-358.9	-7.5	45.5	-11.7	280	4.56
1409	X		9.79	-0.27	18.1	0.0	3830	-130	0.08	-0.01	-371.2	-12.3	39.0	-6.5	280	4.56
1414	X		9.53	-0.26	18.1	0.0	3620	-210	0.08	0.00	-376.3	-5.1	31.5	-7.5	280	4.56
1419	X		9.30	-0.23	18.0	-0.1	3540	-80	0.08	0.00	-380.2	-3.9	23.3	-8.2	280	4.56
1424	X		9.07	-0.23	17.6	-0.4	3480	-60	0.08	0.00	-386.3	-6.1	18.9	-4.4	280	4.56
1429	X		8.87	-0.20	17.7	0.1	3410	-70	0.08	0.00	-385.9	0.4	15.8	-3.1	280	4.56
1434	X		8.74	-0.13	17.5	-0.2	3420	10	0.08	0.00	-385.6	0.3	15.3	-0.5	280	4.56
1439	X		8.65	-0.09	17.6	0.1	3390	-30	0.08	0.00	-386.4	-0.8	14.8	-0.5	280	4.56
1444	X		8.42	-0.23	17.6	0.0	3370	-20	0.08	0.00	-380.8	5.6	13.7	-1.1	280	4.56
1449	X		8.20	-0.22	17.6	0.0	3350	-20	0.08	0.00	-376.1	4.7	12.2	-1.5	280	4.56
1454	X		8.15	-0.05	17.6	0.0	3330	-20	0.08	0.00	-376.3	-0.2	11.4	-0.8	280	4.56
1459	X		8.10	-0.05	17.5	-0.1	3340	10	0.08	0.00	-375.3	1.0	11.2	-0.2	280	4.56
1504		X	8.08	-0.02	17.5	0.0	3340	0	0.08	0.00	-375.4	-0.1	11.1	-0.1	280	4.56

Comments: Pump on @ 1338 Sample time: 1500

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

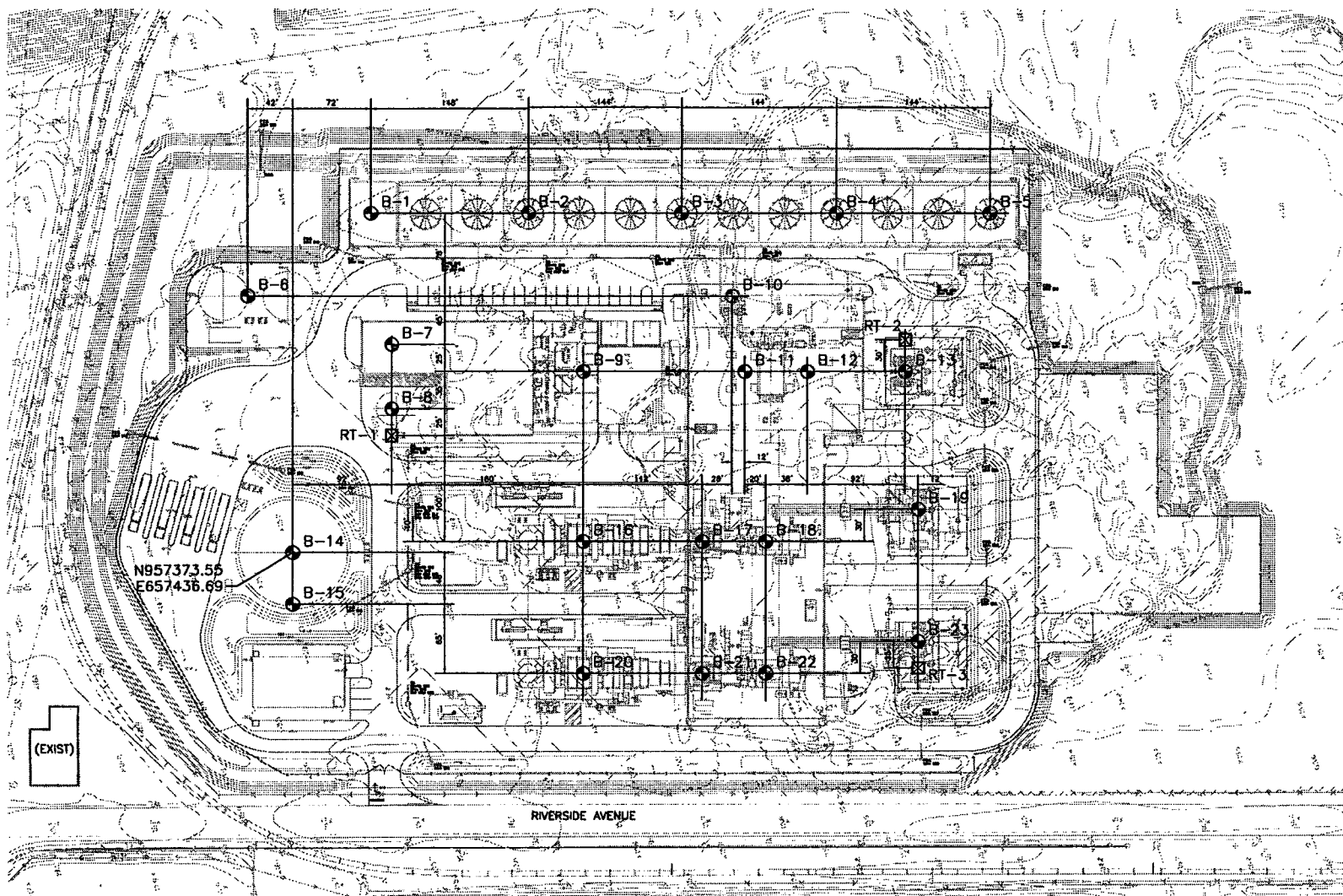
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; + 10 mV for Redox Potential; and + 10% for Dissolved Oxygen and Turbidity**

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>												
Date: <u>6/21/2007</u>				Field Personnel: <u>Tom Lesinski</u>												
Weather: <u>79°F Sun</u>				Job # <u> </u>												
Monitoring Well #: <u>MW-35</u>				Well Depth: <u>15.25</u> ft		Screened/Open Interval: <u>NA</u> ft										
Well Permit #: <u>NA</u>				Well Diameter: <u>2</u> inches												
PID/FID Readings (ppm): Background: <u>0.0</u> Pump Intake Depth: <u>11.0</u> ft below TOC Beneath Outer Cap: <u>0.0</u> Depth to Water Before Pump Installation: <u>5.89</u> ft below TOC Beneath Inner Cap: <u>0.0</u> Purge Method <u>Bladder Pump</u>																
TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1340	X		11.75	NA	18.8	NA	3900	NA	0.49	NA	-438.5	NA	215	NA	250	6.13
1345	X		11.83	0.08	18.7	-0.1	3920	20	0.47	-0.02	-430.9	7.6	121	-94	250	6.21
1350	X		11.88	0.05	19.4	0.7	4050	130	0.32	-0.15	-436.6	-5.7	43.1	-77.9	250	6.21
1355	X		11.94	0.06	19.5	0.1	4130	80	0.04	-0.28	-452.6	-16.0	18.7	-24.4	250	6.21
1400	X		11.92	-0.02	19.5	0.0	4040	-90	0.44	0.40	-434.6	18.0	18.3	-0.4	250	6.21
1405	X		11.78	-0.14	19.3	-0.2	3880	-160	0.73	0.29	-418.6	16.0	130	112	250	6.21
1410	X		11.64	-0.14	19.4	0.1	3770	-110	0.78	0.05	-419.6	-1.0	55.5	-74.5	250	6.21
1415	X		11.63	-0.01	19.4	0.0	3740	-30	0.89	0.11	-415.0	4.6	51.6	-3.9	250	6.21
1420	X		11.61	-0.02	19.4	0.0	3680	-60	1.07	0.18	-401.8	13.20	41.3	-10.3	250	6.21
1425	X		11.58	-0.03	19.3	-0.1	3590	-90	1.25	0.18	-400.6	1.2	35.4	-5.9	250	6.21
1430	X		11.62	0.04	19.2	-0.1	3520	-70	1.20	-0.05	-415.4	-14.8	25.3	-10.1	250	6.21
1435	X		11.66	0.04	19.3	0.1	3530	10	0.98	-0.22	-429.4	-14.0	22.2	-3.1	250	6.21
1440	X		11.64	-0.02	19.2	-0.1	3480	-50	0.96	-0.02	-434.8	-5.4	24.9	2.7	250	6.21
1445	X		11.68	0.04	19.3	0.1	3390	-90	1.31	0.35	-444.4	-9.6	19.9	-5.0	250	6.21
1450	X		11.69	0.01	19.4	0.1	3340	-50	1.32	0.01	-445.6	-1.2	18.9	-1.0	250	6.21
1455	X		11.71	0.02	19.4	0.0	3310	-30	1.30	-0.02	-450.6	-5.0	18.4	-0.5	250	6.21
1500		X	11.75	0.04	19.6	0.2	3300	-10	1.21	-0.09	-454.6	-4.0	18.0	-0.4	250	6.21

Comments: PUMP ON 1335 SAMPLE CLEAR/NO ODOR
SAMPLED @ 1456



LEGEND

- B-x - INDICATES APPROXIMATE SOIL BORING LOCATION
- RT-x - INDICATES APPROXIMATE SOIL RESISTIVITY TEST LOCATION USE WENNER 4-PIN METHOD IN ACCORDANCE WITH IEEE STANDARDS 80 AND 81



Scale: 1 INCH = 50 FEET

LG Constructors

BESICORP-EMPIRE POWER GENERATING FACILITY
SOIL BORING LOCATION PLAN

BESICORP-EMPIRE POWER COMPANY L.L.C.

A
SB-0001

10/10/01, 10/10/01, 10/10/01

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Edgewater				Client / Site: <u>GZA</u>			
Date: <u>6/22/2007</u>				Field Personnel: <u>Freddy Morales</u>			
Weather: <u>80°F Sun</u>				Job # _____			

Monitoring Well #: <u>MW-2</u>	Well Depth: <u>19.60</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):	Background: <u>0.0</u>	Pump Intake Depth: <u>17.0</u> ft below TOC
	Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>11.98</u> ft below TOC
	Beneath Inner Cap: <u>392</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0805	X		7.32	NA	14.9	NA	997	NA	0.30	NA	-158.2	NA	7.32	NA	280	12.01
0810	X		7.19	-0.13	14.8	-0.1	1001	4	0.24	-0.06	-160.0	-1.8	7.35	0.03	280	12.01
0815	X		7.12	-0.07	14.9	0.1	1004	3	0.21	-0.03	-160.4	-0.4	6.23	-1.12	280	12.01
0820	X		7.09	-0.03	14.9	0.0	1005	1	0.20	-0.01	-160.7	-0.3	6.17	-0.06	280	12.01
0825	X		7.05	-0.04	14.9	0.0	1009	4	0.18	-0.02	-161.7	-1.0	6.13	-0.04	280	12.01
0830	X		7.02	-0.03	14.9	0.0	1012	3	0.17	-0.01	-163.0	-1.3	5.23	-0.90	280	12.01
0835	X		7.01	-0.01	14.9	0.0	1013	1	0.16	-0.01	-164.7	-1.7	5.10	-0.13	280	12.01
0840	X		7.02	0.01	14.9	0.0	1015	2	0.15	-0.01	-166.3	-1.6	4.67	-0.43	280	12.01
0845	X		7.01	-0.01	14.9	0.0	1013	-2	0.15	0.00	-169.7	-3.4	4.61	-0.06	280	12.01
0850	X		7.01	0.00	14.9	0.0	1018	5	0.15	0.00	-172.3	-2.6	4.35	-0.26	280	12.01
0855	X		7.01	0.00	15.0	0.1	1017	-1	0.14	-0.01	-174.0	-1.7	4.26	-0.09	280	12.01
0900		X	6.99	-0.02	16.1	1.1	1001	-16	0.29	0.15	-147.1	26.9	11.80	7.54	280	12.01

Comments: Pump on @ 0800 Sample time: 0856
 SAMPLE SLIGHT ODOR/CLEAR

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>												
Date: <u>6/22/2007</u>				Field Personnel: <u>Freddy Morales</u>												
Weather: <u>80°F Sun</u>				Job #: _____												
Monitoring Well #: <u>MW-61</u>				Well Depth: <u>14.55</u> ft		Screened/Open Interval: <u>NA</u> ft										
Well Permit #: <u>NA</u>				Well Diameter: <u>2</u> inches												
PID/FID Readings (ppm): Background: <u>0.0</u> Pump Intake Depth: <u>14.0</u> ft below TOC Beneath Outer Cap: <u>0.0</u> Depth to Water Before Pump Installation: <u>11.15</u> ft below TOC Beneath Inner Cap: <u>32.6</u> Purge Method <u>Bladder Pump</u>																
TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0925	X		6.69	NA	14.5	NA	959	NA	0.39	NA	-153.7	NA	220	NA	240	11.60
0930	X		6.72	0.03	14.4	-0.1	946	-13	0.27	-0.12	-169.4	-15.7	157	-63	240	11.60
0935	X		6.75	0.03	14.6	0.2	948	2	0.23	-0.04	-182.6	-13.2	84.1	-72.9	240	11.60
0940	X		6.75	0.00	14.3	-0.3	946	-2	0.22	-0.01	-192.8	-10.2	64.5	-19.6	240	11.60
0945	X		6.77	0.02	14.5	0.2	943	-3	0.22	0.00	-200.3	-7.5	44.2	-20.3	240	11.60
0950	X		6.77	0.00	14.4	-0.1	941	-2	0.22	0.00	-207.8	-7.5	32.7	-11.5	240	11.60
0955	X		6.78	0.01	14.6	0.2	940	-1	0.24	0.02	-215.0	-7.2	31.1	-1.6	240	11.60
1000	X		6.78	0.00	14.8	0.2	942	2	0.25	0.01	-220.1	-5.1	31.1	0.0	240	11.60
1005	X		6.77	-0.01	14.8	0.0	943	1	0.30	0.05	-224.2	-4.1	28.8	-2.3	240	11.60
1010	X		6.76	-0.01	14.8	0.0	942	-1	0.31	0.01	-228.2	-4.0	34.6	5.8	240	11.60
1015	X		6.76	0.00	15.0	0.2	940	-2	0.35	0.04	-230.7	-2.5	20.7	-13.9	240	11.60
1020	X		6.75	-0.01	15.0	0.0	939	-1	0.38	0.03	-235.6	-4.9	18.9	-1.8	240	11.60
1025	X		6.74	-0.01	14.5	-0.5	940	1	0.36	-0.02	-237.2	-1.6	18.6	-0.3	240	11.60
1030	X		6.75	0.01	14.5	0.0	941	1	0.39	0.03	-242.3	-5.1	23.1	4.5	240	11.60
1035	X		6.74	-0.01	14.5	0.0	934	-7	0.51	0.12	-241.1	1.2	24.6	1.5	240	11.60
1040	X		6.75	0.01	14.5	0.0	933	-1	0.50	-0.01	-241.2	-0.1	24.1	-0.5	240	11.60
1045	X		6.76	0.01	14.6	0.1	930	-3	0.48	-0.02	-242.8	-1.6	24.4	0.3	240	11.60
1050		X	6.78	0.02	14.6	0.0	930	0	0.40	-0.08	-235.6	7.2	20.1	-4.3	240	11.60

Comments:

Pump on @ 0920 Sample time: 1046
 PUMP ONLY 3FT. BELOW WATER, WELL IS ONLY 14.55FT DEEP.

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/22/2007</u>				Field Personnel: <u>Ed Levendosky</u>			
Weather: <u>80°F Sun</u>				Job # <u> </u>			

Monitoring Well #: <u>MW-71</u>	Well Depth: <u>24.33</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):		Background: <u>0.0</u>	Pump Intake Depth: <u>16.5</u> ft below TOC
		Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>11.38</u> ft below TOC
		Beneath Inner Cap: <u>30.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0818	X		8.14	NA	14.5	NA	1187	NA	1.18	NA	-169.9	NA	102.8	NA	260	11.38
0823	X		7.70	-0.44	14.3	-0.2	1199	12	1.09	-0.09	-169.8	0.1	7.51	-95.29	260	11.38
0828	X		7.00	-0.70	14.2	-0.1	1174	-25	1.13	0.04	-159.7	10.1	5.83	-1.68	260	11.38
0833	X		7.53	0.53	14.1	-0.1	1174	0	0.83	-0.30	-159.6	0.1	5.66	-0.17	260	11.38
0838	X		7.39	-0.14	14.2	0.1	1184	10	0.68	-0.15	-158.6	1.0	6.91	1.25	260	11.38
0843	X		7.40	0.01	14.1	-0.1	1181	-3	0.63	-0.05	-158.7	-0.1	4.46	-2.45	260	11.38
0848	X		7.44	0.04	14.2	0.1	1166	-15	0.43	-0.20	-158.7	0.0	5.32	0.86	260	11.38
0853	X		7.43	-0.01	14.2	0.0	1173	7	0.33	-0.10	-158.7	0.0	8.16	2.84	260	11.38
0858	X		7.41	-0.02	14.2	0.0	1173	0	0.28	-0.05	-158.8	-0.1	8.09	-0.07	260	11.38
0903	X		7.40	-0.01	14.2	0.0	1178	5	0.24	-0.04	-158.8	0.0	1.92	-6.17	260	11.38
0908	X		7.40	0.00	14.2	0.0	1178	0	0.24	0.00	-158.8	0.0	1.94	0.02	260	11.38
0813	X		7.40	0.00	14.2	0.0	1176	-2	0.24	0.00	-158.8	0.0	1.86	-0.08	260	11.38
0918		X	7.39	-0.01	14.2	0.0	1162	-14	0.16	-0.08	-159.9	-1.1	6.73	4.87	260	11.38

Comments:	PUMP ON 0813 SAMPLE CLEAR/SLIGHT ODOR SAMPLED@ 0914 FB@ 1030
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*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity**

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1Site: EdgewaterClient / Site: GZADate: 6/25/2007Field Personnel: Steve SchulzeWeather: 72°F Sun

Job # _____

Monitoring Well #: MW-65 Well Depth: 13.30 ft Screened/Open Interval: NA ftWell Permit #: NA Well Diameter: 2 inchesPID/FID Readings
(ppm):Background: 0.0Pump Intake Depth: 10.0 ft below TOCBeneath Outer Cap: 0.0Depth to Water Before Pump Installation: 4.72 ft below TOCBeneath Inner Cap: 0.9Purge Method Bladder Pump

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0958	X		6.59	NA	19.1	NA	9100	NA	0.99	NA	-253.9	NA	385	NA	250	4.74
1003	X		6.47	-0.12	15.9	-3.2	7150	-1950	1.02	0.03	-289.4	-35.5	441	56	250	4.74
1008	X		6.45	-0.02	15.6	-0.3	5920	-1230	1.11	0.09	-299.2	-9.8	397	-44	250	4.74
1013	X		6.44	-0.01	15.7	0.1	5330	-590	1.00	-0.11	-307.0	-7.8	291	-106	250	4.74
1018	X		6.44	0.00	15.8	0.1	5770	440	0.84	-0.16	-311.4	-4.4	199	-92	250	4.74
1023	X		6.44	0.00	15.8	0.0	4920	-850	0.71	-0.13	-316.2	-4.8	128	-71	250	4.74
1028	X		6.44	0.00	15.8	0.0	4840	-80	0.68	-0.03	-319.4	-3.2	74.9	-53.1	250	4.74
1033	X		6.44	0.00	15.8	0.0	4670	-170	0.59	-0.09	-323.0	-3.6	56.7	-18.2	250	4.74
1038	X		6.45	0.01	15.8	0.0	4470	-200	0.65	0.06	-325.5	-2.5	42.3	-14.4	250	4.74
1043	X		6.45	0.00	15.8	0.0	4340	-130	0.62	-0.03	-327.2	-1.7	30.5	-11.8	250	4.74
1048	X		6.45	0.00	15.9	0.1	4200	-140	0.64	0.02	-328.8	-1.6	25.0	-5.5	250	4.74
1053	X		6.45	0.00	16.0	0.1	4110	-90	0.60	-0.04	-330.1	-1.3	20.9	-4.1	250	4.74
1058	X		6.45	0.00	16.1	0.1	4030	-80	0.56	-0.04	-331.2	-1.1	16.8	-4.1	250	4.74
1103	X		6.45	0.00	16.0	-0.1	3910	-120	0.56	0.00	-332.0	-0.8	15.0	-1.8	250	4.74
1108	X		6.45	0.00	16.1	0.1	3870	-40	0.53	-0.03	-332.4	-0.4	12.5	-2.5	250	4.74
1113	X		6.46	0.01	16.0	-0.1	3810	-60	0.51	-0.02	-333.1	-0.7	10.25	-2.25	250	4.74
1118	X		6.46	0.00	16.0	0.0	3750	-60	0.51	0.00	-333.7	-0.6	10.47	0.22	250	4.74
1123	X		6.46	0.00	16.0	0.0	3730	-20	0.49	-0.02	-334.2	-0.5	10.18	-0.29	250	4.74
1128		X	6.46	0.00	16.1	0.1	3700	-30	0.46	-0.03	-336.9	-2.7	10.06	-0.12	250	4.74

Comments:

Pump on @ 0955

Sample time: 1124

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>												
Date: <u>6/25/2007</u>				Field Personnel: <u>Steve Schulze</u>												
Weather: <u>80°F Sun</u>				Job # <u></u>												
Monitoring Well #: <u>MW-58</u>		Well Depth: <u>11.77</u> ft		Screened/Open Interval: <u>NA</u> ft												
Well Permit #: <u>NA</u>		Well Diameter: <u>2</u> inches														
PID/FID Readings (ppm): Background: <u>0.0</u> Pump Intake Depth: <u>9.0</u> ft below TOC Beneath Outer Cap: <u>0.0</u> Depth to Water Before Pump Installation: <u>3.73</u> ft below TOC Beneath Inner Cap: <u>23.0</u> Purge Method <u>Bladder Pump</u>																
TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1204	X		6.84	NA	16.9	NA	3070	NA	0.63	NA	-302.9	NA	2860	NA	300	3.84
1209	X		6.79	-0.05	16.1	-0.8	2960	-110	0.60	-0.03	-325.1	-22.2	1600	-1260	300	3.85
1214	X		6.77	-0.02	16.1	0.0	2890	-70	0.52	-0.08	-332.4	-7.3	390	-1210	300	3.86
1219	X		6.72	-0.05	15.9	-0.2	2880	-10	0.53	0.01	-340.4	-8.0	227	-163	300	3.88
1224	X		6.79	0.07	15.3	-0.6	2870	-10	0.52	-0.01	-352.4	-12.0	144	-83	300	3.90
1229	X		6.81	0.02	15.1	-0.2	2870	0	0.55	0.03	-360.0	-7.6	105.6	-38.4	300	3.91
1234	X		6.80	-0.01	15.1	0.0	2870	0	0.57	0.02	-364.6	-4.6	76.0	-29.6	300	3.91
1239	X		6.83	0.03	15.0	-0.1	2860	-10	0.57	0.00	-369.4	-4.8	55.7	-20.3	300	3.91
1244	X		6.83	0.00	15.0	0.0	2860	0	0.58	0.01	-372.2	-2.8	40.3	-15.4	300	3.91
1249	X		6.84	0.01	15.0	0.0	2860	0	0.56	-0.02	-375.9	-3.7	36.4	-3.9	300	3.91
1254	X		6.84	0.00	15.0	0.0	2860	0	0.57	0.01	-378.7	-2.8	25.0	-11.4	300	3.91
1259	X		6.84	0.00	15.0	0.0	2850	-10	0.58	0.01	-380.1	-1.4	21.9	-3.1	300	3.91
1304	X		6.85	0.01	15.0	0.0	2850	0	0.55	-0.03	-381.4	-1.3	17.3	-4.6	300	3.91
1309	X		6.84	-0.01	15.2	0.2	2860	10	0.54	-0.01	-381.6	-0.2	14.3	-3.0	300	3.91
1314	X		6.84	0.00	15.0	-0.2	2850	-10	0.54	0.00	-381.9	-0.3	11.8	-2.5	300	3.91
1319	X		6.84	0.00	15.0	0.0	2840	-10	0.53	-0.01	-381.7	0.2	8.67	-3.13	300	3.91
1324	X		6.85	0.01	15.0	0.0	2850	10	0.50	-0.03	-382.7	-1.0	8.47	-0.20	300	3.91
1329	X		6.85	0.00	15.0	0.0	2840	-10	0.52	0.02	-383.4	-0.7	8.11	-0.36	300	3.91
1334		X	6.87	0.02	15.3	0.3	2830	-10	0.55	0.03	-380.4	3.0	8.00	-0.11	300	3.91

Comments: Pump on @ 1201 Sample time: 1330

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1Site: EdgewaterClient / Site: GZADate: 6/26/2007Field Personnel: Steve SchulzeWeather: 78°F Sun

Job # _____

Monitoring Well #: MW-33 Well Depth: 13.40 ft Screened/Open Interval: NA ftWell Permit #: NA Well Diameter: 2 inchesPID/FID Readings
(ppm):Background: 0.0Pump Intake Depth: 9.0 ft below TOCBeneath Outer Cap: 0.0Depth to Water Before Pump Installation: 3.88 ft below TOCBeneath Inner Cap: 163Purge Method Bladder Pump

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0809	X		6.45	NA	19.8	NA	4890	NA	1.66	NA	-88.1	NA	181	NA	300	3.88
0814	X		6.58	0.13	19.4	-0.4	4620	-270	1.65	-0.01	-98.9	-10.8	49.1	-132	300	3.88
0819	X		6.64	0.06	19.5	0.1	4350	-270	1.58	-0.07	-113.8	-14.9	16.5	-32.6	300	3.88
0824	X		6.67	0.03	19.4	-0.1	4240	-110	1.35	-0.23	-123.8	-10.0	10.64	-5.86	300	3.88
0829	X		6.70	0.03	19.5	0.1	4180	-60	1.39	0.04	-134.4	-10.6	6.04	-4.60	300	3.88
0834	X		6.73	0.03	19.4	-0.1	4150	-30	1.22	-0.17	-142.5	-8.1	7.04	1.00	300	3.88
0839	X		6.74	0.01	19.4	0.0	4120	-30	1.16	-0.06	-149.2	-6.7	5.20	-1.84	300	3.88
0844	X		6.75	0.01	19.4	0.0	4110	-10	1.13	-0.03	-157.4	-8.2	4.76	-0.44	300	3.88
0849	X		6.75	0.00	19.4	0.0	4130	20	1.14	0.01	-162.3	-4.9	5.34	0.58	300	3.88
0854	X		6.77	0.02	19.4	0.0	4080	-50	1.13	-0.01	-174.1	-11.8	4.67	-0.67	300	3.88
0859	X		6.77	0.00	19.4	0.0	4070	-10	1.11	-0.02	-180.3	-6.2	4.39	-0.28	300	3.88
0904	X		6.77	0.00	19.4	0.0	4080	10	1.09	-0.02	-185.9	-5.6	4.27	-0.12	300	3.88
0909	X		6.78	0.01	19.4	0.0	4080	0	1.03	-0.06	-189.9	-4.0	4.02	-0.25	300	3.88
0914		X	6.77	-0.01	19.4	0.0	4080	0	1.00	-0.03	-191.3	-1.4	4.11	0.09	300	3.88

Comments:

Pump on @ 0807

Sample time: 0910

**LOW FLOW SAMPLING
DATA SHEETS**

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/26/2007</u>				Field Personnel: <u>Ed Levendosky</u>			
Weather: <u>80°F Sun</u>				Job # <u> </u>			

Monitoring Well #: <u>MW-32</u>	Well Depth: <u>15.29</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):		Background: <u>0.0</u>	Pump Intake Depth: <u>9.5</u> ft below TOC
		Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>4.04</u> ft below TOC
		Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0950	X		6.77	NA	19.5	NA	9080	NA	1.37	NA	-187.5	NA	100.8	NA	200	4.68
0955	X		6.50	-0.27	22.5	3.0	8500	-580	1.48	0.11	-107.0	80.5	72.7	-28.1	200	4.68
1000	X		6.53	0.03	22.9	0.4	8100	-400	1.54	0.06	-115.5	-8.5	50.5	-22.2	200	4.68
1005	X		6.61	0.08	23.1	0.2	7240	-860	0.64	-0.90	-133.3	-17.8	68.8	18.3	200	4.68
1010	X		6.68	0.07	23.3	0.2	6680	-560	0.56	-0.08	-146.6	-13.3	53.0	-15.8	200	4.68
1015	X		6.72	0.04	23.9	0.6	6370	-310	0.52	-0.04	-166.7	-20.1	58.5	5.5	200	4.68
1020	X		6.78	0.06	23.3	-0.6	6120	-250	0.56	0.04	-192.5	-25.8	67.0	8.5	200	4.68
1025	X		6.86	0.08	23.2	-0.1	5800	-320	0.67	0.11	-238.5	-46.0	65.3	-1.7	200	4.68
1030	X		6.89	0.03	23.3	0.1	5690	-110	0.73	0.06	-280.1	-41.6	66.3	1.0	200	4.68
1035	X		6.69	-0.20	23.1	-0.2	6160	470	0.81	0.08	-278.1	2.0	66.0	-0.3	200	4.68
1040	X		6.78	0.09	23.1	0.0	5940	-220	0.78	-0.03	-287.6	-9.5	62.3	-3.7	200	4.68
1045	X		6.86	0.08	23.2	0.1	5780	-160	0.88	0.10	-305.3	-17.7	65.2	2.9	200	4.68
1050	X		6.94	0.08	23.2	0.0	5620	-160	0.81	-0.07	-321.8	-16.5	52.8	-12.4	200	4.68
1055	X		6.97	0.03	23.2	0.0	5580	-40	1.15	0.34	-330.9	-9.1	65.8	13.0	200	4.68
1100	X		6.98	0.01	23.3	0.1	5560	-20	1.17	0.02	-331.1	-0.2	66.1	0.3	200	4.68
1105	X		6.99	0.01	23.3	0.0	5590	30	1.16	-0.01	-330.1	1.0	65.9	-0.2	200	4.68
1110	X		6.98	-0.01	23.3	0.0	5560	-30	1.15	-0.01	-330.7	-0.6	66.0	0.1	200	4.68
1115		X	6.99	0.01	23.3	0.0	5560	0	1.11	-0.04	-331.0	-0.3	64.2	-1.8	200	4.68

Comments: Pump on @ 0946 Sample time: 1111

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

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*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1Site: EdgewaterClient / Site: GZADate: 6/27/2007Field Personnel: Steve SchulzeWeather: 70oF SunJob # Monitoring Well #: MW-54 Well Depth: 16.42 ft Screened/Open Interval: NA ftWell Permit #: NA Well Diameter: 2 inches

PID/FID Readings

(ppm): Background: 0.0 Pump Intake Depth: 8.0 ft below TOC

Beneath Outer Cap: 0.0 Depth to Water Before Pump Installation: 2.56 ft below TOC

Beneath Inner Cap: 47.8 Purge Method Bladder Pump

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0808	X		6.96	NA	20.1	NA	930	NA	2.73	NA	-158.7	NA	296	NA	250	2.58
0813	X		6.90	-0.06	18.2	-1.9	935	5	1.44	-1.29	-186.1	-27.4	234	-62	250	2.58
0818	X		6.92	0.02	18.0	-0.2	939	4	1.15	-0.29	-198.9	-12.8	108.6	-125.4	250	2.58
0823	X		6.91	-0.01	17.7	-0.3	945	6	1.14	-0.01	-209.7	-10.8	64.9	-43.7	250	2.58
0828	X		6.93	0.02	17.5	-0.2	953	8	1.39	0.25	-214.1	-4.4	35.5	-29.4	250	2.58
0833	X		6.95	0.02	17.6	0.1	956	3	1.26	-0.13	-219.8	-5.7	32.9	-2.6	250	2.58
0838	X		6.94	-0.01	17.8	0.2	961	5	1.31	0.05	-224.8	-5.0	26.8	-6.1	250	2.58
0843	X		6.95	0.01	17.5	-0.3	964	3	1.16	-0.15	-230.5	-5.7	16.5	-10.3	250	2.58
0848	X		6.95	0.00	17.5	0.0	972	8	1.07	-0.09	-237.4	-6.9	13.2	-3.3	250	2.58
0853	X		6.94	-0.01	17.6	0.1	975	3	1.00	-0.07	-243.2	-5.8	11.4	-1.8	250	2.58
0858	X		6.95	0.01	17.7	0.1	979	4	0.98	-0.02	-246.0	-2.8	9.05	-2.35	250	2.58
0903	X		6.95	0.00	17.8	0.1	981	2	0.99	0.01	-250.1	-4.1	9.58	0.53	250	2.58
0908	X		6.93	-0.02	17.7	-0.1	986	5	0.91	-0.08	-255.4	-5.3	9.23	-0.35	250	2.58
0913		X	6.91	-0.02	17.9	0.2	989	3	0.90	-0.01	-260.3	-4.9	9.02	-0.21	250	2.58

Comments:

Pump on @ 0806

Sample time: 0909

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/27/2007</u>				Field Personnel: <u>Steve Schulze</u>			
Weather: <u>85oF Sun</u>				Job # <u></u>			

Monitoring Well #: <u>MW-39s</u>	Well Depth: <u>16.59</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):		Background: <u>0.0</u>	Pump Intake Depth: <u>10.5</u> ft below TOC
		Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>5.49</u> ft below TOC
		Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1145	X		7.58	NA	24.9	NA	966	NA	2.55	NA	-120.8	NA	755	NA	310	5.50
1150	X		7.42	-0.16	20.0	-4.9	731	-235	2.61	0.06	-152.8	-32.0	441	-314	310	5.50
1155	X		7.48	0.06	19.4	-0.6	606	-125	2.12	-0.49	-177.3	-24.5	132	-309	310	5.50
1200	X		7.52	0.04	19.3	-0.1	568	-38	2.01	-0.11	-192.2	-14.9	44.4	-87.6	310	5.50
1205	X		7.52	0.00	19.2	-0.1	555	-13	1.61	-0.40	-203.4	-11.2	36.1	-8.3	310	5.50
1210	X		7.52	0.00	19.1	-0.1	554	-1	1.62	0.01	-208.9	-5.5	17.4	-18.7	310	5.50
1215	X		7.52	0.00	19.2	0.1	545	-9	1.38	-0.24	-213.3	-4.4	13.3	-4.1	310	5.50
1220	X		7.53	0.01	19.2	0.0	541	-4	1.21	-0.17	-220.8	-7.5	9.22	-4.08	310	5.50
1225	X		7.53	0.00	19.0	-0.2	540	-1	1.19	-0.02	-227.4	-6.6	7.96	-1.26	310	5.50
1230	X		7.54	0.01	19.0	0.0	537	-3	1.03	-0.16	-234.4	-7.0	5.23	-2.73	310	5.50
1235	X		7.54	0.00	19.0	0.0	539	2	0.91	-0.12	-239.6	-5.2	3.75	-1.48	310	5.50
1240	X		7.54	0.00	19.0	0.0	536	-3	0.86	-0.05	-245.4	-5.8	3.30	-0.45	310	5.50
1245	X		7.54	0.00	19.0	0.0	537	1	0.81	-0.05	-249.3	-3.9	3.27	-0.03	310	5.50
1250	X		7.53	-0.01	18.9	-0.1	536	-1	0.79	-0.02	-252.9	-3.6	3.11	-0.16	310	5.50
1255		X	7.49	-0.04	18.9	0.0	538	2	0.89	0.10	-258.3	-5.4	2.99	-0.12	310	5.50

Comments: Pump on @ 1143 Sample time: 1251

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1

Site: <u>Edgewater</u>				Client / Site: <u>GZA</u>			
Date: <u>6/28/2007</u>				Field Personnel: <u>Steve Schulze</u>			
Weather: <u>88°F Sun</u>				Job #: _____			

Monitoring Well #: <u>MW-20</u>	Well Depth: <u>16.65</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):	Background: <u>0.0</u>	Pump Intake Depth: <u>7.0</u> ft below TOC
	Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>2.17</u> ft below TOC
	Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
0943	X		6.70	NA	23.4	NA	1779	NA	2.00	NA	-234.8	NA	357	NA	220	2.18
0948	X		6.51	-0.19	20.4	-3.0	1852	73	0.83	-1.17	-246.5	-11.7	151	-206	220	2.18
0953	X		6.46	-0.05	20.7	0.3	1858	6	0.88	0.05	-267.9	-21.4	63.0	-88.0	220	2.18
0958	X		6.34	-0.12	22.0	1.3	1858	0	1.19	0.31	-269.3	-1.4	72.3	9.3	220	2.18
1003	X		6.25	-0.09	21.4	-0.6	1851	-7	1.96	0.77	-264.3	5.0	66.1	-6.2	220	2.18
1008	X		6.27	0.02	20.9	-0.5	1885	34	1.95	-0.01	-276.6	-12.3	61.9	-4.2	220	2.18
1013	X		6.37	0.10	20.8	-0.1	1905	20	1.97	0.02	-274.6	2.0	48.1	-13.8	220	2.18
1018	X		6.50	0.13	20.4	-0.4	1944	39	1.80	-0.17	-286.8	-12.2	30.9	-17.2	220	2.18
1023	X		6.46	-0.04	20.8	0.4	1939	-5	1.69	-0.11	-287.8	-1.0	25.8	-5.1	220	2.18
1028	X		6.43	-0.03	21.8	1.0	1948	9	1.79	0.10	-285.8	2.0	29.4	3.6	220	2.18
1033	X		6.53	0.10	21.0	-0.8	1967	19	1.71	-0.08	-296.9	-11.1	21.8	-7.6	220	2.18
1038	X		6.49	-0.04	19.9	-1.1	1988	21	1.73	0.02	-297.3	-0.4	19.3	-2.5	220	2.18
1043	X		6.50	0.01	19.8	-0.1	1991	3	1.75	0.02	-298.2	-0.9	16.8	-2.5	220	2.18
1048	X		6.46	-0.04	19.9	0.1	1989	-2	1.76	0.01	-298.5	-0.3	16.4	-0.4	220	2.18
1053	X		6.41	-0.05	20.1	0.2	1987	-2	1.71	-0.05	-294.6	3.9	16.0	-0.4	220	2.18
1058		X	6.40	-0.01	20.9	0.8	1980	-7	1.65	-0.06	-291.1	3.5	15.8	-0.2	220	2.18

Comments: Pump on @ 0939 Sample time: 1054

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1

Site: <u>Edgewater</u>		Client / Site: <u>GZA</u>	
Date: <u>6/28/2007</u>		Field Personnel: <u>Steve Schulze</u>	
Weather: <u>89°F Sun</u>		Job # _____	

Monitoring Well #: <u>MW-55</u>	Well Depth: <u>13.09</u> ft	Screened/Open Interval: <u>NA</u> ft
Well Permit #: <u>NA</u>	Well Diameter: <u>2</u> inches	

PID/FID Readings (ppm):		Background: <u>0.0</u>	Pump Intake Depth: <u>8.5</u> ft below TOC
		Beneath Outer Cap: <u>0.0</u>	Depth to Water Before Pump Installation: <u>3.08</u> ft below TOC
		Beneath Inner Cap: <u>0.0</u>	Purge Method <u>Bladder Pump</u>

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1151	X		9.01	NA	25.1	NA	5700	NA	2.57	NA	-347.8	NA	992	NA	120	3.12
1156	X		9.81	0.80	21.5	-3.6	3700	-2000	2.00	-0.57	-395.0	-47.2	1089	97	120	3.49
1201	X		9.93	0.12	22.5	1.0	3160	-540	1.86	-0.14	-385.4	9.6	716	-373	120	3.75
1206	X		10.04	0.11	22.8	0.3	2970	-190	1.81	-0.05	-383.4	2.0	467	-249	120	3.81
1211	X		10.19	0.15	22.3	-0.5	2890	-80	1.57	-0.24	-373.1	10.3	237	-230	120	4.22
1216	X		10.23	0.04	23.2	0.9	2920	30	1.43	-0.14	-381.7	-8.6	131	-106	120	4.23
1221	X		9.91	-0.32	23.2	0.0	3290	370	1.65	0.22	-375.3	6.4	95.3	-35.7	120	4.23
1226	X		10.28	0.37	22.4	-0.8	3040	-250	1.80	0.15	-380.9	-5.6	64.0	-31.3	120	4.29
1231	X		10.24	-0.04	22.5	0.1	3120	80	1.87	0.07	-378.7	2.2	33.2	-30.8	120	4.35
1236	X		10.22	-0.02	22.5	0.0	3190	70	1.83	-0.04	-378.2	0.5	19.3	-13.9	120	4.46
1241	X		10.22	0.00	22.5	0.0	3220	30	1.89	0.06	-384.0	-5.8	15.0	-4.3	120	4.53
1246	X		10.09	-0.13	23.0	0.5	3330	110	1.87	-0.02	-387.4	-3.4	13.0	-2.0	120	4.62
1251	X		9.95	-0.14	23.0	0.0	3480	150	1.88	0.01	-387.0	0.4	10.03	-2.97	120	4.71
1256	X		9.93	-0.02	23.2	0.2	3450	-30	1.86	-0.02	-388.8	-1.8	9.98	-0.05	120	4.80
1301	X		9.93	0.00	23.0	-0.2	3490	40	1.82	-0.04	-388.0	0.8	9.59	-0.39	120	4.89
1306		X	9.90	-0.03	23.2	0.2	3470	-20	1.83	0.01	-387.6	0.4	9.00	-0.59	120	4.93

Comments: Pump on @ 1149 Sample time: 1302

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity

Site:		Edgewater						Client / Site:		GZA							
Date:		6/28/2007						Field Personnel:		Tom Lesinski							
Weather:		89°F Sun						Job #									
Monitoring Well #:		MW-67				Well Depth:		11.65 ft		Screened/Open Interval:		NA ft					
Well Permit #:		NA				Well Diameter:		2 inches									
PID/FID Readings (ppm):																	
Background:		0.0				Pump Intake Depth:		10.5 ft below TOC									
Beneath Outer Cap:		0.0				Depth to Water Before Pump Installation:		5.30 ft below TOC									
Beneath Inner Cap:		0.0				Purge Method		Bladder Pump									
TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)	
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change			
1316	X		6.98	NA	17.6	NA	5230	NA	1.71	NA	-215.6	NA	724	NA	300	5.30	
1321	X		6.82	-0.16	17.6	0.0	4420	-810	1.08	-0.63	-277.8	-62.2	153	-571	300	5.30	
1326	X		6.74	-0.08	17.6	0.0	4330	-90	1.01	-0.07	-296.2	-18.4	77.8	-75.2	300	5.30	
1331	X		6.69	-0.05	17.6	0.0	4310	-20	0.81	-0.20	-314.3	-18.1	33.1	-44.7	300	5.30	
1336	X		6.68	-0.01	17.6	0.0	4360	50	0.70	-0.11	-327.4	-13.1	17.0	-16.1	300	5.30	
1341	X		6.67	-0.01	17.6	0.0	4330	-30	0.54	-0.16	-338.8	-11.4	11.7	-5.3	300	5.30	
1346	X		6.67	0.00	17.6	0.0	4370	40	0.43	-0.11	-347.6	-8.8	8.66	-3.04	300	5.30	
1351	X		6.65	-0.02	17.6	0.0	4390	20	0.29	-0.14	-355.6	-8.0	6.35	-2.31	300	5.30	
1356	X		6.66	0.01	17.6	0.0	4370	-20	0.29	0.00	-352.3	3.3	6.19	-0.16	300	5.30	
1401	X		6.67	0.01	17.6	0.0	4380	10	0.28	-0.01	-353.3	-1.0	5.98	-0.21	300	5.30	
1406		X	6.67	0.00	18.5	0.9	4390	10	0.29	0.01	-351.9	1.4	5.01	-0.97	300	5.30	
Comments:			PUMP ON 1311 SAMPLE CLEAR/NO ODOR SAMPLED @ 1402 FB @ 1300														

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity**

[illegible]

LOW FLOW SAMPLING DATA SHEETS

Sheet 1 of 1Site: EdgewaterClient / Site: GZADate: 6/29/2007Field Personnel: Steve SchulzeWeather: 73°F Clouds

Job # _____

Monitoring Well #: MW-70Well Depth: 13.17 ftScreened/Open Interval: NA ftWell Permit #: NAWell Diameter: 2 inchesPID/FID Readings
(ppm):Background: 0.0Pump Intake Depth: 10.0 ft below TOCBeneath Outer Cap: 0.0Depth to Water Before Pump Installation: 4.66 ft below TOCBeneath Inner Cap: 0.0Purge Method Bladder Pump

TIME	Purging	Sampling	pH (pH units)		Temperature (°C)		Specific Conductivity (us/cm)		Dissolved Oxygen (mg/L)		Redox Potential (mV)		Turbidity (NTU)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
1022	X		6.90	NA	19.5	NA	3070	NA	1.80	NA	-281.6	NA	2088	NA	490	4.67
1027	X		6.80	-0.10	17.2	-2.3	3090	20	0.48	-1.32	-305.5	-23.9	1642	-446	490	4.82
1032	X		6.75	-0.05	16.6	-0.6	3100	10	0.35	-0.13	-308.0	-2.5	340	-1302	280	4.91
1037	X		6.72	-0.03	16.7	0.1	3100	0	0.41	0.06	-310.1	-2.1	148	-192	280	4.91
1042	X		6.71	-0.01	16.6	-0.1	3110	10	0.33	-0.08	-312.8	-2.7	104.9	-43.1	280	4.91
1047	X		6.71	0.00	16.7	0.1	3110	0	0.30	-0.03	-310.7	2.1	77.8	-27.1	280	4.91
1052	X		6.70	-0.01	16.5	-0.2	3110	0	0.34	0.04	-314.4	-3.7	53.6	-24.2	280	4.91
1057	X		6.71	0.01	16.5	0.0	3110	0	0.33	-0.01	-314.7	-0.3	51.0	-2.6	280	4.91
1102	X		6.72	0.01	16.5	0.0	3110	0	0.36	0.03	-316.3	-1.6	46.4	-4.6	280	4.91
1107	X		6.74	0.02	16.5	0.0	3110	0	0.39	0.03	-318.9	-2.6	39.8	-6.6	280	4.91
1112	X		6.75	0.01	16.4	-0.1	3120	10	0.40	0.01	-321.1	-2.2	31.3	-8.5	280	4.91
1117	X		6.75	0.00	16.3	-0.1	3120	0	0.42	0.02	-321.7	-0.6	29.8	-1.5	280	4.91
1122	X		6.77	0.02	16.3	0.0	3120	0	0.41	-0.01	-323.8	-2.1	30.9	1.1	280	4.91
1127		X	6.78	0.01	16.2	-0.1	3120	0	0.40	-0.01	-326.8	-3.0	28.7	-2.2	280	4.91

Comments:

Pump on @ 1019

Sample time: 1123

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-3

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fhamy

Date: 9/18/2007

PURGE DEPTH (ft.): 9.2

PURGE RATE (ml/min): Approx. 120

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.28 - 4.19 = 10.09

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
10:35:00 AM								Pump ON
10:45:00 AM	4.24	6.79	13.7	13.7	0	18.89	-372	
10:50:00 AM	4.21	6.87	12.4	12.4	0	19.47	-386	
11:18:00 AM	4.21	7.49	11.6	11.6	0.06	19.31	-347	
11:23:00 AM	4.2	7.01	11.1	11.1	0	19.04	-386	
11:28:00 AM	4.19	6.96	11.1	11.1	0	18.75	-389	
11:33:00 AM	4.19	6.96	11.3	11.3	0	19.3	-393	
11:38:00 AM	4.19	6.98	11.1	11.1	0	19.9	-394	
11:43:00 AM								Started Sample Collection
12:01:00 PM	4.2	7.6	9.22	9.22	0	21.88	-419	Sample Completed - Pump OFF

NOTES

10:55 - Generator stopped for 2 minutes.
10:58 - Generator ran out of gas; restarted pumping at 11:17.

MW-3

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-25

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fhamy

Date: 9/18/2007

PURGE DEPTH (ft.): 10.2

PURGE RATE (ml/min): Approx. 120

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

13.14 - 5.18 = 7.96

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
4:24:00 PM								Pump ON
4:25:00 PM	5.17	6.89	22.7	22.7	2.78	18.7	-222	
4:30:00 PM	5.18	6.8	21.4	21.4	0	19.23	-250	
4:35:00 PM	5.18	6.82	18.4	18.4	0.2	19.8	-261	
4:40:00 PM	5.17	6.93	14.3	14.3	0	20.37	-299	
4:45:00 PM	5.18	6.94	11.6	11.6	0	20.63	-336	
4:50:00 PM	5.19	6.93	10	10	0	20.63	-358	
4:55:00 PM	5.18	6.89	10	10	0	20.69	-363	
5:00:00 PM	5.18	6.86	10.1	10.1	0	20.99	-368	
5:03:00 PM								Started Sample Collection
5:22:00 PM	5.19	6.89	5.37	5.37	0	20.53	-380	Sample Completed - Pump OFF

NOTES

17:12 - Generator ran out of gas during sampling; switched generators to finish sampling.

MW-25

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-32

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fhamy

Date: 9/18/2007

PURGE DEPTH (ft.): 9.4

PURGE RATE (ml/min): Approx. 115

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

15.11 - 4.35 = 10.76

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
3:32:00 AM								Pump ON
3:35:00 AM	4.99	6.46	14.9	14.9	0.07	24.61	-132	
3:45:00 AM	5.13	6.55	14.3	14.3	0	25.55	-158	
3:50:00 AM	5.11	6.58	12.9	12.9	0	26.19	-162	Pump shut off temporarily
3:55:00 AM	5.09	6.61	12.7	12.7	0	26.27	-165	
4:00:00 AM	5.09	6.61	12.4	12.4	0	26.54	-168	
4:05:00 AM	5.11	6.6	11.9	11.9	0	26.8	-170	
4:10:00 AM	5.01	6.62	10.4	10.4	0	26.39	-172	
4:15:00 AM	5.05	6.62	10.5	10.5	0	26.55	-172	
4:20:00 AM	5.04	6.25	11.8	11.8	0	27.18	-187	
4:25:00 AM	5.04	6.29	15.5	15.5	0	27.1	-198	
4:30:00 AM	5.11	6.31	16.1	16.1	0	29.14	-206	
4:35:00 AM	5.15	6.43	15	15	0	28.95	-212	
4:40:00 AM	5.13	6.4	14.5	14.5	0	28.76	-213	
4:45:00 AM	5.1	6.43	13.8	13.8	0	28.21	-214	Started Sample Collection
4:59:00 AM	5.59	6.68	10.3	10.3	0	27.48	-223	Sample Completed - Pump OFF

NOTES

MW-32

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-33

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: A. Hough

Date: 9/18/2007

PURGE DEPTH (ft.): 9

PURGE RATE (ml/min): Approx. 165

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)
13.34 - 4.03 = 9.31

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
2:36:00 PM	4.03							Pump ON
2:38:00 PM	4.08	6.98	6.62	6.62	0.96	23.28	-184	
2:43:00 PM	4.05	6.74	6.12	6.12	0	24.27	-192	
2:48:00 PM	4.06	6.74	5.86	5.86	0	24.64	-200	
2:53:00 PM	4.06	6.75	5.69	5.69	0	25.28	-208	
2:58:00 PM	4.07	6.76	5.56	5.56	0	25.26	-214	
3:03:00 PM	4.07	6.77	5.39	5.39	0	25.31	-218	
3:08:00 PM	4.06	6.78	5.26	5.26	0	25.23	-223	
3:13:00 PM	4.06	6.79	5.16	5.16	0	25.35	-227	
3:18:00 PM	4.06	6.8	5.12	5.12	0	25.2	-230	
3:23:00 PM	4.07	6.81	5.09	5.09	0	25.49	-232	
3:28:00 PM	4.05	6.81	5.07	5.07	0	25.81	-233	
3:30:00 PM								Started Sample Collection
3:41:00 PM	4.09	6.83	4.99	4.99	0	25.56	-238	Sample Completed - Pump OFF

NOTES

MW-33

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-34

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fahmy

Date: 9/18/2007

PURGE DEPTH (ft.): 9.4

PURGE RATE (ml/min): Approx. 100

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

13.83 - 5.38 = 8.45

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
12:35:00 PM								Pump ON
12:40:00 PM	5.49	6.74	7.32	7.32	0	19.47	-367	
12:45:00 PM	5.48	6.67	7.2	7.2	0	19.99	-379	
12:50:00 PM	5.46	6.65	6.98	6.98	0	20.62	-382	
12:55:00 PM	5.46	6.66	6.9	6.9	0	20.91	-385	
1:00:00 PM	5.46	6.66	6.84	6.84	0	21.12	-384	
1:05:00 PM	5.45	6.66	6.81	6.81	0	21.2	-381	
1:10:00 PM	5.44	6.66	6.78	6.78	0	21.19	-381	
1:15:00 PM	5.45	6.66	6.75	6.75	0	21.22	-381	
1:20:00 PM	5.45	6.67	6.74	6.74	0	21	-379	
1:21:00 PM								Started Sample Collection
2:00:00 PM	5.45	6.68	6.74	6.74	0	21.1	-380	Sample Completed - Pump OFF

NOTES

MW-34

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-35

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: A. Hough

Date: 9/18/2007

PURGE DEPTH (ft.): 11.4

PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

15.26 - 6.34 = 8.92

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
10:21:00 AM								Pump ON
10:24:00 AM	6.72	8.48	18.1	18.1	0	21.81	-412	
10:29:00 AM	6.59	8.65	16.7	16.7	0	22.85	-442	
10:34:00 AM	6.54	8.9	14.1	14.1	0	23.71	-458	
10:39:00 AM	6.5	9.22	12.2	12.2	0	23.93	-480	
10:46:00 AM	6.51	9.44	10.7	10.7	0	24.58	-496	
10:51:00 AM	6.51	9.56	10.5	10.5	0	24.7	-498	
10:56:00 AM	6.5	10.22	9.3	9.3	0	25.26	-530	
11:01:00 AM	6.53	10.75	5.47	5.47	0	25.71	-552	
11:06:00 AM	6.53	10.92	5.51	5.51	0	25.74	-553	
11:11:00 AM	6.56	10.87	5.38	5.38	0	26.04	-552	
11:16:00 AM	6.59	10.88	5.38	5.38	0	25.94	-551	
11:21:00 AM	6.53	10.83	5.25	5.25	0	25.9	-549	
11:26:00 AM	6.52	10.78	5.21	5.21	0	25.98	-547	
11:30:00 AM								Started Sample Collection
11:47:00 AM	6.58	9.8	5.04	5.04	0	25.89	-494	Sample Completed - Pump OFF

NOTES

MW-35

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-36

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: A. Hough

Date: 9/17/2007

PURGE DEPTH (ft.): 9.3

PURGE RATE (ml/min): Approx. 120

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.77 - 4.31 = 10.46

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
2:45:00 PM								Pump ON
2:47:00 PM	4.18	5.19	0	0	8.76	20.24	48	
2:52:00 PM	4.21	5.19	0	0	8.61	20.11	45	
2:57:00 PM	4.34	5.24	0	0	8.45	20.76	37	
3:02:00 PM	4.26	5.23	0	0	8.52	20.68	42	
3:08:00 PM	4.26	5.28	0	0	8.33	21.51	39	
3:13:00 PM	4.28	5.3	0	0	8.27	22.08	44	
3:18:00 PM		5.35	0	0	7.99	23.51	48	
3:21:00 PM								Started Sample Collection
3:38:00 PM								
3:44:00 PM	4.33	4.99	0	0	8.15	24.11	38	
4:40:00 PM								Sample Completed - Pump OFF

NOTES

Horiba cap accidentally left on during sampling.

MW-36

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-48

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fhamy

Date: 9/17/2007

PURGE DEPTH (ft.): 8.4

PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

16.95 - 3.39 = 13.56

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
2:20:00 AM	3.42	6.95	10.7	10.7	0	21.49	-407	Pump ON
2:25:00 AM	3.41	6.97	11.3	11.3	0	21.95	-411	
2:30:00 AM	3.41	6.98	11.5	11.5	0	22.15	-412	
2:35:00 AM	3.41	6.99	12.1	12.1	0	22.39	-414	
2:40:00 AM	3.41	7	12	12	0	22.47	-415	
2:45:00 AM	3.41	7	11.9	11.9	0	22.52	-415	
2:50:00 AM	3.41	7	11.9	11.9	0	22.5	-416	Started Sample Collection
3:10:00 AM	3.55	6.97	7.55	7.55	0	21.44	-423	Sample Completed - Pump OFF

NOTES

MW-48

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-52

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fahmy

Date: 9/17/2007

PURGE DEPTH (ft.): 9.0

PURGE RATE (ml/min): Approx. 100

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

13.5 - 3.96 = 9.54

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
9:32:00 AM	3.96							Pump ON
9:36:00 AM	3.98	6.67	3.63	3.63	1.54	18.88	-289	
9:41:00 AM	3.97	6.73	3.69	3.69	0	19.47	-367	
9:46:00 AM	3.96	6.73	3.64	3.64	0	21.04	-381	
9:51:00 AM	3.96	6.73	3.72	3.72	0	20.18	-380	
9:56:00 AM	3.98	6.75	3.52	3.52	0	20.9	-373	
10:01:00 AM	3.97	6.75	3.49	3.49	0	20.95	-383	
10:06:00 AM	3.95	6.75	3.47	3.47	0	20.6	-386	
10:11:00 AM	3.96	6.74	3.43	3.43	0	20.76	-387	
10:15:00 AM	3.97	6.74	3.42	3.42	0	20.93	-388	Started Sample Collection
10:32:00 AM	3.97	6.75	3.58	3.58	0	21.25	-385	Sample Completed - Pump OFF

NOTES

MW-52

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-53

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fahmy

Date: 9/17/2007

PURGE DEPTH (ft.): 7.9

PURGE RATE (ml/min): Approx. 150

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.41 - 2.91 = 11.5

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
11:15:00 AM	2.91							Pump ON
11:17:00 AM	2.92	6.91	4.28	4.28	0	17.94	-374	
11:22:00 AM	2.91	6.77	4.2	4.2	0	18.89	-383	
11:27:00 AM	2.9	6.78	4.16	4.16	0	19.48	-387	
11:32:00 AM	2.91	6.79	4.11	4.11	0	19.9	-391	
11:37:00 AM	2.91	6.8	4.1	4.1	0	20.08	-395	
11:42:00 AM	2.91	6.81	4.08	4.08	0	20.76	-394	
11:47:00 AM	2.91	6.81	4.09	4.09	0	20.82	-396	
11:52:00 AM	2.91	6.8	4.08	4.08	0	20.19	-392	
11:57:00 AM	2.91	6.8	4.13	4.13	0	20.27	-395	
12:02:00 PM	2.91	6.8	4.13	4.13	0	20.45	-398	
12:05:00 PM								Started Sample Collection
12:15:00 PM	3.19	6.82	3.97	3.97	0	18.12	-394	Sample Completed - Pump OFF

NOTES

11:47 - Generator stopped working for one minute.

MW-53

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-55

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fahmy

Date: 9/18/2007

PURGE DEPTH (ft.): 8.5

PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

13.04 - 3.36 = 9.68

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
8:21:00 AM								Pump ON
8:25:00 AM	7.67	7.69	19	19	0	20.41	-417	
8:30:00 AM	3.63	7.63	18.8	18.8	0	20.15	-429	
8:35:00 AM	3.61	7.64	18.6	18.6	0	19.75	-434	
8:40:00 AM	3.76	7.68	14	14	0	21.75	-430	
8:45:00 AM	3.79	7.72	14.2	14.2	0	22.03	-435	
8:50:00 AM	3.81	7.72	13.8	13.8	0	22.25	-437	
8:55:00 AM	3.95	7.72	12.1	12.1	0	24.63	-435	
9:00:00 AM	3.96	8.02	11.5	11.5	0	24.48	-436	
9:05:00 AM	4.04	7.92	10.4	10.4	0	23.14	-438	
9:10:00 AM	4.09	8.06	10.3	10.3	0	23.69	-435	
9:15:00 AM	4.08	8.05	10	10	0	23.57	-437	
9:20:00 AM	4.09	8.06	9.9	9.9	0	21.92	-438	
9:25:00 AM	4.1	8.04	9.5	9.5	0	22.54	-436	Started Sample Collection
10:00:00 AM	4.8	8.94	6.41	6.41	0	22.22	-451	Sample Completed - Pump OFF

NOTES

Flow rate adjusted to pump as slow as possible without the pump shutting off.

MW-55

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-56

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: A. Hough

Date: 9/18/2007

PURGE DEPTH (ft.): 9.63

PURGE RATE (ml/min): Approx. 140

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.41 - 4.63 = 9.78

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
8:33:00 AM	4.61							Pump ON
8:36:00 AM	4.81	8.46	5.49	5.49	0	21.38	-396	
8:41:00 AM	4.68	8.93	4.96	4.96	0	20.84	-429	
8:46:00 AM	4.69	8.58	5.55	5.55	0	21.73	-413	
8:51:00 AM	4.69	8.74	5.42	5.42	0	22.18	-429	
8:56:00 AM	4.69	8.84	5.41	5.41	0	22.49	-437	
9:01:00 AM	4.7	8.91	5.44	5.44	0	22.53	-443	
9:06:00 AM	4.69	8.84	5.58	5.58	0	22.93	-442	
9:11:00 AM	4.69	8.87	5.56	5.56	0	22.9	-440	
9:16:00 AM	4.69	8.92	5.32	5.32	0	23.12	-451	
9:21:00 AM	4.69	9.06	5.1	5.1	0	23.21	-456	
9:26:00 AM	4.7	8.97	5.2	5.2	0	23.31	-450	
9:31:00 AM	4.69	8.99	5.1	5.1	0	23.46	-454	
9:33:00 AM								Started Sample Collection
9:48:00 AM	4.73	8.48	5.1	5.1	0	23.58	-421	Sample Completed - Pump OFF

NOTES

MW-56

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-57

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: A. Hough

Date: 9/18/2007

PURGE DEPTH (ft.): 11.5

PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)
14.71 - 6.55 = 8.16

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
12:21:00 PM								Pump ON
12:24:00 PM	6.58	8.15	8.85	8.85	0	17.99	-250	
12:29:00 PM	6.59	7.68	8.57	8.57	0	18.37	-265	
12:34:00 PM	6.61	7.65	3.87	3.87	0	19.06	-293	
12:39:00 PM	6.56	7.43	3.07	3.07	0	19.96	-302	
12:44:00 PM	6.56	7.32	2.98	2.98	0	19.52	-306	
12:49:00 PM	6.57	7.22	2.99	2.99	0	19.88	-311	
12:54:00 PM	6.57	7.16	3.04	3.04	0	20.09	-312	
12:59:00 PM	6.58	7.12	3.04	3.04	0	20.19	-316	
1:04:00 PM	6.57	7.09	3.04	3.04	0	20.26	-318	
1:09:00 PM	6.57	7.07	3.06	3.06	0	20.36	-322	
1:14:00 PM	6.57	7.04	3.07	3.07	0	20.43	-324	
1:18:00 PM	6.58	6.95	3.13	3.13	0	21	-350	Sample Completed - Pump OFF

NOTES

MW-57

WELL SAMPLING DATA SHEET



GZA
GeoEnvironmental of New York
Engineers and Scientists

IPark Edgewater LLC

45 River Road
Edgewater, NJ

WELL ID.: MW-58

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to
(from top of casing, top to bottom)

GZA Representative: S. Fahmy

Date: 9/17/2007

PURGE DEPTH (ft.): 9.2

PURGE RATE (ml/min): Approx. 125

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

11.71 - 4.17 = 7.54

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp. (C)	ORP	Notes
4:10:00 AM	7.53	3.64	0	0	4.1	17.44	-400	Pump ON
4:15:00 AM	6.89	3.56	-5	-5	4.14	17.85	-421	
4:20:00 AM	6.88	3.55	-5	-5	4.15	17.91	-425	
4:25:00 AM	6.9	3.49	-5	-5	4.16	19.12	-425	
4:30:00 AM	6.9	3.54	9.11	9.11	4.16	19	-423	
4:35:00 AM	6.9	3.55	9.22	9.22	4.16	18.91	-419	
4:40:00 AM	6.9	3.54	8.31	8.31	4.16	18.98	-421	
4:45:00 AM	6.89	3.53	8.38	8.38	4.16	19.17	-420	
4:50:00 AM	6.89	3.53	8.3	8.3	4.16	19.15	-421	
4:55:00 AM	6.89	3.53	8.29	8.29	4.16	19.21	-418	Started Sample Collection
5:05:00 AM	6.89	3.51	4.1	4.1	4.16	19.96	-420	Sample Completed - Pump OFF

NOTES

MW-58

DWR-133M
6/04

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

Permit No. 2600081159

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:

BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

COORD #: 26.14.273

Owner I. Park Edgewater LLC

Driller SUMMIT DRILLING CO., INC.

Address 485 West Putnam Ave

Address 9W Chimney Rock Road

Bound Brook, NJ 08805

Name of Facility T Park Edgewater

Address 45 River Road

Diameter of Well(s) <u>2</u> Inches	Proposed Depth of Well(s) <u>20</u> Feet
# of Wells <u>1</u>	Will pumping equipment be utilized? YES <input type="checkbox"/> NO <input type="checkbox"/>
Applied for (max. 10) <u>1</u>	
Type of Well (see reverse) <u>Monitor</u>	If Yes, give pump capacity _____ cumulative GPM

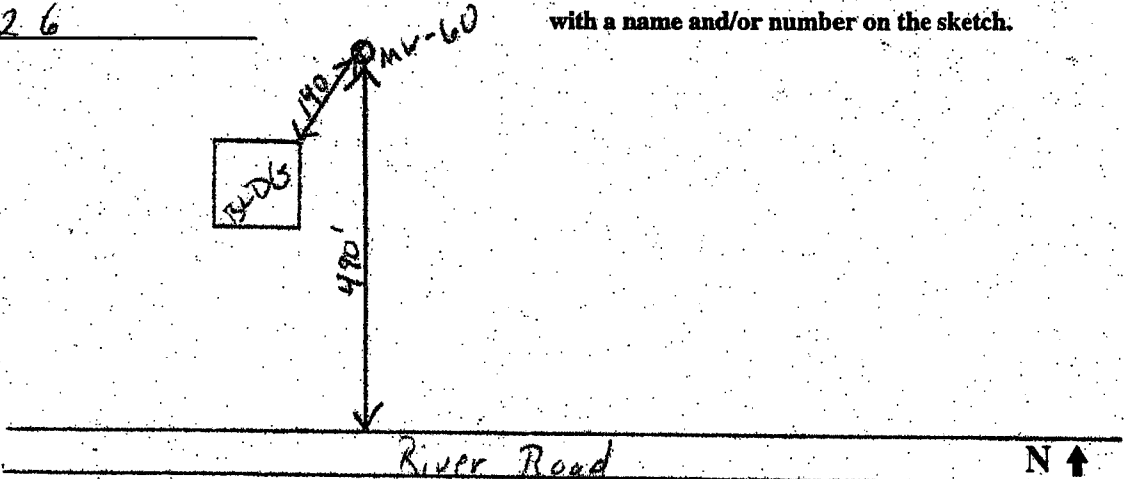
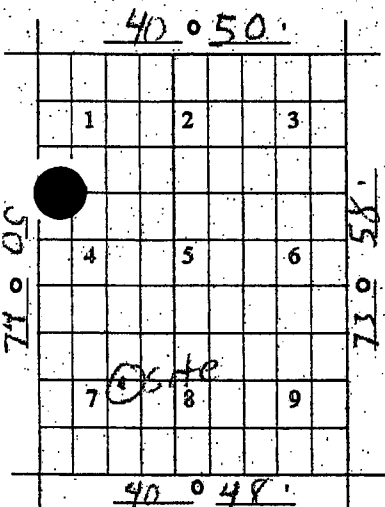
Edgewater NJ 07020

LOCATION OF WELL(S)

Lot # <u>1-5</u>	Block # <u>99</u>	Municipality <u>Edgewater, Bergen</u>	County <u>Bergen</u>
------------------	-------------------	---------------------------------------	----------------------

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

State Atlas Map No. 26



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____	EASTING: _____
LATITUDE: _____	LONGITUDE: _____

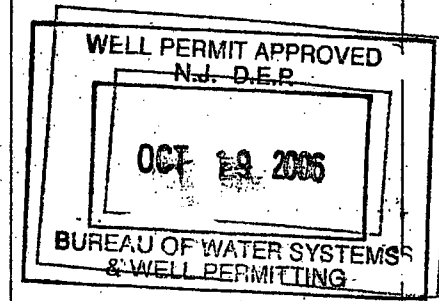
FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- | | |
|---|--|
| <input type="checkbox"/> RCRA Site | <input type="checkbox"/> Spill Site |
| <input type="checkbox"/> Underground Storage Tank Site | <input type="checkbox"/> ISRA Site |
| <input type="checkbox"/> Operational Ground Water Permit Site | <input type="checkbox"/> CERCLA (Superfund) Site |
| <input type="checkbox"/> Pretreatment and Residuals Site | |
| <input type="checkbox"/> Water and Hazardous Waste Enforcement Case | |
| <input type="checkbox"/> Water Supply Aquifer Test Observation Well | |
| <input type="checkbox"/> Other (explain) _____ | |

CASE I.D. Number

E20040267

This Space for Approval Stamp



☐ Issuance of this permit is subject to the conditions attached. (see next page) ☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 10/19/06

Signature of Driller Matthew Rand

Registration No. 51577

Signature of Property Owner Meredith Hayes (for I. Park Edgewater LLC)

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

DWR-133M
6/04

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. _____

COORD #: _____

Mail To:

DEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Owner I Park Edgewater LLC

Driller SUMMIT DRILLING CO., INC.

Address 485 West Putnam Ave

Address 9W Chimney Rock Road
Bound Brook, NJ 08805

Greenwich C.T. 06830

Name of Facility I. Park Edgewater

Address 45 River Road

Edgewater NJ 07020

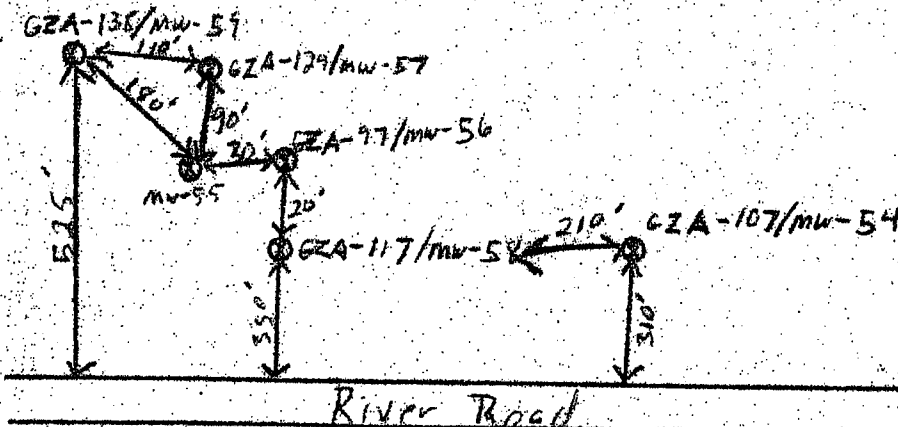
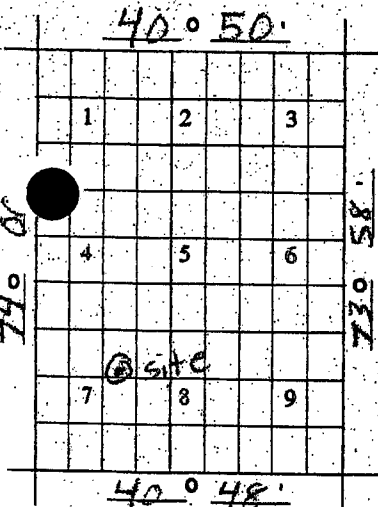
Diameter of Well(s)	2	Inches	Proposed Depth of Well(s)	20	Feet
# of Wells	6		Will pumping equipment be utilized?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Applied for (max. 10)	6		If Yes, give pump capacity		cumulative GPM
Type of Well (see reverse)	Monitor				

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1-5	99	Edgewater	Bergen

State Atlas Map No. 26

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____	EASTING: _____
OR	
LATITUDE: _____	LONGITUDE: _____

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- | | |
|---|--|
| <input type="checkbox"/> RCRA Site | <input type="checkbox"/> Spill Site |
| <input type="checkbox"/> Underground Storage Tank Site | <input checked="" type="checkbox"/> ISRA Site |
| <input type="checkbox"/> Operational Ground Water Permit Site | <input type="checkbox"/> CERCLA (Superfund) Site |
| <input type="checkbox"/> Pretreatment and Residuals Site | |
| <input type="checkbox"/> Water and Hazardous Waste Enforcement Case | |
| <input type="checkbox"/> Water Supply Aquifer Test Observation Well | |
| <input type="checkbox"/> Other (explain) _____ | |

CASE ID. Number

E20040267

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.

OCT 4 2006

BUREAU OF WATER SYSTEM
& WELL PERMITTING

☐ Issuance of this permit is subject to the conditions attached. (see next page)

☒ For monitoring purposes only

USE ☐

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 09/26/06

Signature of Driller Matthew Paab

Registration No. J1577

Signature of Property Owner Meredith Hayes (For I. Park Edgewater, LLC) CD

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. _____

Mail To:

BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

COORD #: _____

26.14.373

Owner I. Park Edgewater LLC

Driller SUMMIT DRILLING CO., INC.

Address 485 West Putnam Ave
Greenwich CT 06830

Address 9W Chimney Rock Road
Bound Brook, NJ 08805

Name of Facility I. Park Edgewater

Diameter of Well(s)	1	Inches	Proposed Depth of Well(s)	20	Feet
# of Wells	5		Will pumping equipment be utilized?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
Applied for (max. 10)	5		If Yes, give pump capacity	_____	cumulative GPM
Type of Well (see reverse)	Monitor				

Address 45 River Road

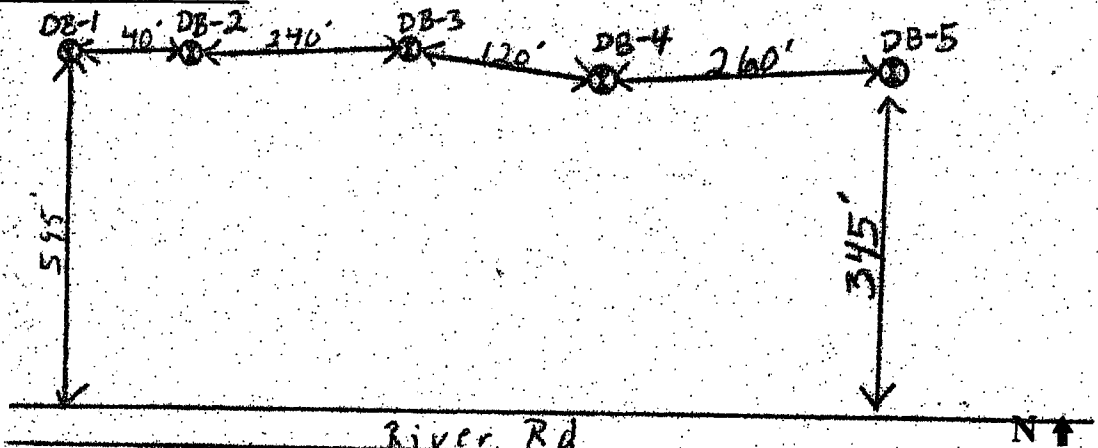
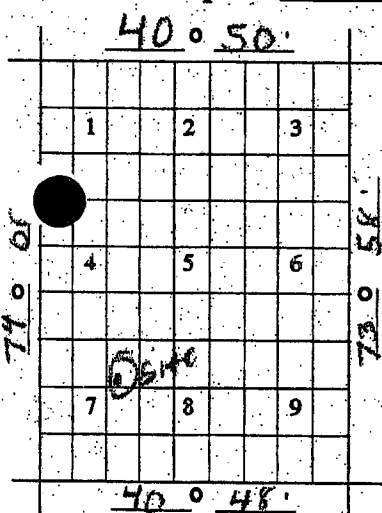
Edgewater N.J. 07020

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1-5	99	Edgewater	Bergen

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

State Atlas Map No. 26



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: _____ LONGITUDE: _____

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site ☐ Spill Site
☐ Underground Storage Tank Site ☒ ISRA Site
☐ Operational Ground Water Permit Site ☐ CERCLA (Superfund) Site
☐ Pretreatment and Residuals Site
☐ Water and Hazardous Waste Enforcement Case
☐ Water Supply Aquifer Test Observation Well
☐ Other (explain) _____

CASE ID. Number

E20040267

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.

OCT 4 2006

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

☐ Issuance of this permit is subject to the conditions attached. (see next page)

☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 09/26/06

Signature of Driller Matthew Raab

Registration No. 51577

Signature of Property Owner Meredith Ayer (For I. Park Edgewater LLC)

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

GZA

MONITORING WELL RECORD

OWNER IDENTIFICATION LPARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-54

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-18-06

DATE WELL COMPLETED 10-18-06

WELL CONSTRUCTION

Total Depth Drilled 16 ft.

Finished Well Depth 16 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Is protective casing installed?

☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using m-scope

Well was developed for 1/2 hours

at 2 gpm

Method of development Pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig CME-75

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	2	2	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 1010)	2	16	2	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	16		more #1	
Grout	0	1		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-5' Fill

5'-16' Fine + med gray sand

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: LONGITUDE:

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Murtha

Driller's Signature John Murtha

Well No. 521245 Date 01/15/07

MONITORING WELL RECORD

OWNER IDENTIFICATION L.PARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-55

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-11-06

DATE WELL COMPLETED 10-11-06

WELL CONSTRUCTION

Total Depth Drilled 12 ft.

Finished Well Depth 12 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using manoscope

Well was developed for 1/2 hours

at 2 gpm

Method of development pumping

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig CME-75

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Murtha

Driller's Signature John Murtha

F tion No. 521245 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	<u>2</u>	<u>12</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used <u> </u>)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>12</u>		<u>mix #1</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>99 lbs 5 lbs</u>

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-5' Fill

5'-12' Fine + med gray sand

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ' " LONGITUDE: ' "

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-56

County Bergen Municipality Edgewater Boro

Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-24-06

DATE WELL COMPLETED 10-24-06

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 6 ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 4 gpm

Method of development —

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Reich Drill

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Murtha

Driller's Signature John Murtha

ation No. 521245 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	3	2	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>1020</u>)	3	15	2	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	15		none #2	
Grout	0	2		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Gravel

Drilling Method ADP Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-6' asphalt
6'-10' historic fill
10'-15' Dark gray sand & silt
Water at 6'

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION LPARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-57

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-24-06

DATE WELL COMPLETED 10-24-06

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Protective casing installed?

☒ No

Static Water Level after drilling 6 ft.

Water Level was Measured Using Tag

Well was developed for 1 hours

at 7 gpm

Method of development Plung

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Revol Drill

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Murtha

Driller's Signature John Murtha

Driller's License No. 521245 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	3	2	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.020</u>)	3	15	2	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	15		Mix #2	
Grout	0	2		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Gravity

Drilling Method Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-6 Asphalt
6-10' Hintonville Fills
10-15' Dark gray sandstone
Water at 6'

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MLW-58

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-12-06

DATE WELL COMPLETED 10-12-06

WELL CONSTRUCTION

Total Depth Drilled 13 ft.

Finished Well Depth 13 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using manometer

Well was developed for 1/2 hours

at 2 gpm

Method of development Surge

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig CMB-75

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Murtha

Driller's Signature John Murtha

ation No. 321245 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	<u>2</u>	<u>13</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>13</u>		<u>monofil</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>94</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-5' Fill

5'-13' Fine + med gray sand

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: 0 ' — " LONGITUDE: 0 ' — "

MONITORING WELL RECORD

OWNER IDENTIFICATION LPARK EDGEWATER LLC

485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-59

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-11-06

DATE WELL COMPLETED 10-11-06

WELL CONSTRUCTION

Total Depth Drilled 13 ft.

Finished Well Depth 13 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using M-nage

Well was developed for 1/2 hours

at 2 gpm

Method of development Pump

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig CME-75

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>010</u>)	<u>2</u>	<u>13</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used <u> </u>)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>13</u>		<u>monite</u>	
Grout	<u>0</u>	<u>1</u>		Neat Cement Bentonite	<u>94</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

6-5' Fill

5'-13' Fine to med gray sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Martin

Driller's Signature John Martin

ation No. 521245 Date 01/05/07

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: LONGITUDE:

MONITORING WELL RECORD

OWNER IDENTIFICATION I. PARK EDGEWATER LLC

485 WEST PUTNAM AVE.

Greenwich

State

Connecticut

Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-60

County Bergen

Municipality Edgewater Boro

Lot No. 1-5 Block No. 94

Address 45 RIVER ROAD

WELL USE Monitoring

DATE WELL STARTED 10-19-06

DATE WELL COMPLETED 10-19-06

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using in scope

Well was developed for 1/2 hours

at 2 gpm

Method of development —

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig CMB-75

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) John Marthe

Driller's Signature John Marthe

Permit No. 521245 Date 01/15/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	<u>2</u>	<u>15</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>15</u>		<u>more + 1</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>74</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-5' Fill

5'-15' Fine + med
gray sand

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: 0 ' — " LONGITUDE: 0 ' — "

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-72

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'34.6" Latitude: North 40°48'10.7"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717823 East 632492

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 8.45'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

7/24/07
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

At 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. DB-1

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-17-06

DATE WELL COMPLETED 10-17-06

WELL CONSTRUCTION

Total Depth Drilled 7 ft.

Finished Well Depth 7 ft.

Borehole Diameter:

Top 5 in.

Bottom 5 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling ft.

Water Level was Measured Using

Well was developed for hours

at gpm

Method of development

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hydro 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joe Neri

Driller's Signature Joe Neri

Registration No. MW 24437 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch. no.)
Single/Inner Casing	0	2	1	PVC	sch 80
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>010</u>)	2	7	1	PVC	sch 80
Blank Casings (No. Used <u> </u>)					
Tail Piece					
Gravel Pack	1	7		barite	
Grout	0	1		Neat Cement Bentonite	54 lbs 5 lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-7' Black m/sand w/
gravel Tr. Peat

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

2614273

Address 485 WEST PUTNAM AVE
City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address
County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99
Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-16-06

DATE WELL COMPLETED 10-16-06

WELL CONSTRUCTION

Total Depth Drilled 7 ft.

Finished Well Depth 7 ft.

Borehole Diameter:

Top 5 in.

Bottom 5 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using probe

Well was developed for — hours

at — gpm

Method of development —

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Geoprobe 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joe Neri

Driller's Signature Joe Neri

Registration No. MW24437 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>010</u>)	<u>2</u>	<u>7</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>7</u>		<u>Iron #1</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>99</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-7' Black w/ sand w/
gravel Tr. Part

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: 0 ' _____ " LONGITUDE: 0 ' _____ "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVE
City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. DB-3

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-16-06

DATE WELL COMPLETED 10-16-06

WELL CONSTRUCTION

Total Depth Drilled 8 ft.

Finished Well Depth 8 ft.

Borehole Diameter:

Top 5 in.

Bottom 5 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using in scope

Well was developed for hours

at gpm

Method of development

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hydraulic 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joe Neri

Driller's Signature Joe Neri

Permit No. MW24437 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	<u>2</u>	<u>8</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used <u> </u>)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>8</u>		<u>mon #1</u>	
Grout	<u>0</u>	<u>1</u>		Neat Cement Bentonite	<u>94</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-8' Black w/sand w/ gravel Tr. Peat

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. DB-4

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-16-06

DATE WELL COMPLETED 10-16-06

WELL CONSTRUCTION

Total Depth Drilled 6 ft.

Finished Well Depth 6 ft.

Borehole Diameter:

Top 5 in.

Bottom 5 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Str. protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using in scope

Well was developed for — hours

at — gpm

Method of development —

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Geopole 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joe Neri

Driller's Signature [Signature]

Registration No. mw24437 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	2	1	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>0/0</u>)	2	6	1	PVC	sch 40
Blank Casings (No. Used <u>—</u>)					
Tail Piece					
Gravel Pack	1	6		mon. #1	
Grout	0	1		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-6' Black m/sand?
w/ gravel

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: — EASTING: —

OR

LATITUDE: —° —' —" LONGITUDE: —° —' —"

MONITORING WELL RECORD

OWNER IDENTIFICATION I.PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. DB-5

County Bergen Municipality Edgewater Boro Lot No. 1-5 Block No. 99

Address 45 RIVER ROAD I. PARK EDGEWATER

WELL USE Monitoring

DATE WELL STARTED 10-17-06

DATE WELL COMPLETED 10-17-06

WELL CONSTRUCTION

Total Depth Drilled 7 ft.

Finished Well Depth 7 ft.

Borehole Diameter:

Top 5 in.

Bottom 5 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Str. protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using manometer

Well was developed for hours

at gpm

Method of development

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hydraulic

Health and Safety Plan Submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joe Neri

Driller's Signature [Signature]

Registration No. MW 24432 Date 01/05/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	<u>2</u>	<u>7</u>	<u>1</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used <u> </u>)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>7</u>		<u>mon #1</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>99 lbs</u> <u>5 lbs</u>

Grouting Method Gravity

Drilling Method ASA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-7' Black sand w/ gravel Tr Peat

AS-BUILT WELL LOCATION

(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: LONGITUDE:

DWR-133M
6/04

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

Mail To:

NIDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. 26-2062061

COORD #: 21612.13

Owner I. Park Edgewater LLC
Address 485 West Putnam Ave
Greenwich CT 06830

Driller SUMMIT DRILLING CO., INC.
Address 9W Chimney Rock Road
Bound Brook, NJ 08805

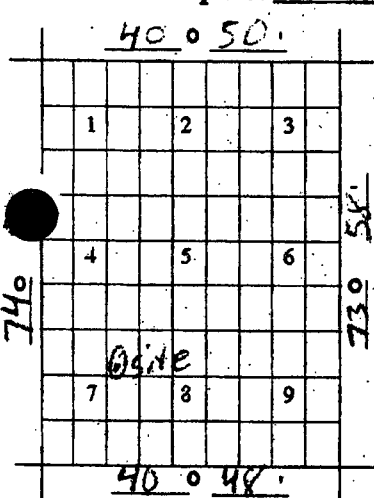
Name of Facility I. Park Edgewater
Address 45 River Road
Edgewater NJ 07020

Diameter of Well(s) <u>2</u> Inches	Proposed Depth of Well(s) <u>20</u> Feet
# of Wells Applied for (max. 10) <u>3</u>	Will pumping equipment be utilized? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Type of Well (see reverse) <u>Monitor</u>	If Yes, give pump capacity _____ cumulative GPM

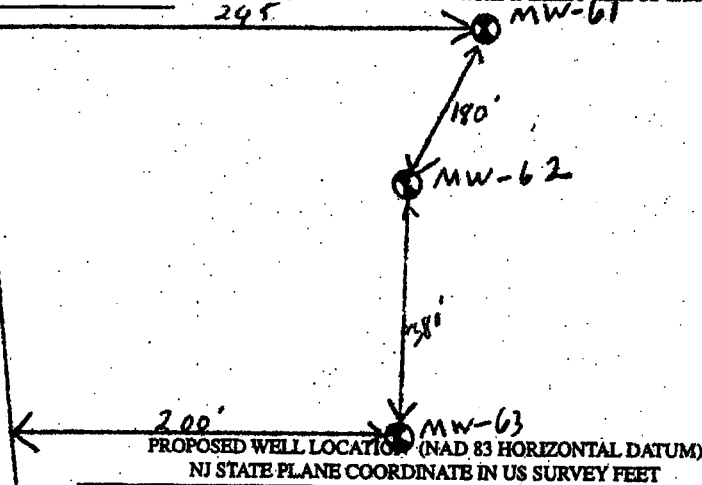
LOCATION OF WELL(S)

Lot # 1-5 Block # 99 Municipality Edgewater Borough County Bergen

State Atlas Map No. 26



Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



NORTHING: _____ EASTING: _____
OR
LATITUDE: _____ LONGITUDE: _____

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site ☐ Spill Site
☐ Underground Storage Tank Site ☒ ISRA Site
☐ Operational Ground Water Permit Site ☐ CERCLA (Superfund) Site
☐ Pretreatment and Residuals Site
☐ Water and Hazardous Waste Enforcement Case
☐ Water Supply Aquifer Test Observation Well
☐ Other (explain) _____

CASE ID Number

E20040267

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.

JAN 26 2007

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

FOR D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☒ For monitoring purposes only

VERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In accordance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 01-17-07

Signature of Driller Matthew Raab

Registration No. 31577

Signature of Property Owner Meredith Hayer (For I. Park Edgewater LLC)

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

GZA

MONITORING WELL RECORD

Atlas Sheet Coordinates
2614273

OWNER IDENTIFICATION I. PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVENUE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-61

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 99

Address 45 RIVER ROAD

WELL USE Monitoring

DATE WELL STARTED 01-31-07

DATE WELL COMPLETED 01-31-07

WELL CONSTRUCTION

Total Depth Drilled 12 ft.

Finished Well Depth 12 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Steel protective casing installed?

☒ No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tube

Well was developed for 1 hours

at 1 gpm

Method of development slurp

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	2	2	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	2	12	2	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12		sand #2	
Grout	0	1		Neat Cement Bentonite	5 lbs

Grouting Method Gravity

Drilling Method Hollow Stem Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-12' Black silt & sand fill

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Matt Raab

Driller's Signature Matt Raab

Registration No. 51577 Date 03/14/07

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION I. PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVENUE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-62

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 99

Address 45 RIVER ROAD

WELL USE Monitoring

DATE WELL STARTED 01-31-07

DATE WELL COMPLETED 01-31-07

WELL CONSTRUCTION

Total Depth Drilled 16 ft.

Finished Well Depth 16 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

protective casing installed?

☒ Yes ☒ No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development jump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	2	2	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.010</u>)	2	16	2	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	16		sand #2	
Grout	0	1		Neat Cement Bentonite	99 lbs 5 lbs

Grouting Method Gravity

Drilling Method Hollow Stem Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-15' Black silt + sand fill

15'-16' meadow soil

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Matt Raab

Driller's Signature Matt Raab

Registration No. J 1577 Date 03/14/07

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number

2600082062

MONITORING WELL RECORD

Atlas Sheet Coordinates

2614273

OWNER IDENTIFICATION I. PARK EDGEWATER LLC

Address 485 WEST PUTNAM AVENUE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-63

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 99

Address 45 RIVER ROAD

WELL USE Monitoring

DATE WELL STARTED 01-31-07

DATE WELL COMPLETED 01-31-07

WELL CONSTRUCTION

Total Depth Drilled 12 ft.

Finished Well Depth 12 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tap

Well was developed for 1 hours

at 1 gpm

Method of development plung

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Matt Raab

Driller's Signature Matt Raab

Registration No. 51577

Date 03/14/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>010</u>)	<u>2</u>	<u>12</u>	<u>2</u>	<u>PVC</u>	<u>sch 40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>12</u>		<u>sand #2</u>	
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>94</u> lbs <u>5</u> lbs

Grouting Method Gravity

Drilling Method Hollow Stem Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-15' Black sands + silt fill

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: — EASTING: —

OR

LATITUDE: — ° — ' — " LONGITUDE: — ° — ' — "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

2600013531
2600013536

MONITORING WELL PERMIT

Permit No. _____

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 26.14.273

Owner Park Edgewater
Address 485 West Putnam Ave
Greenwich CT 06830

Driller SUMMIT DRILLING CO., INC.
Address 9W Chimney Rock Road
Bound Brook, NJ 08805

Name of Facility Former Unifac Facility
Address 45 River Road
Edgewater

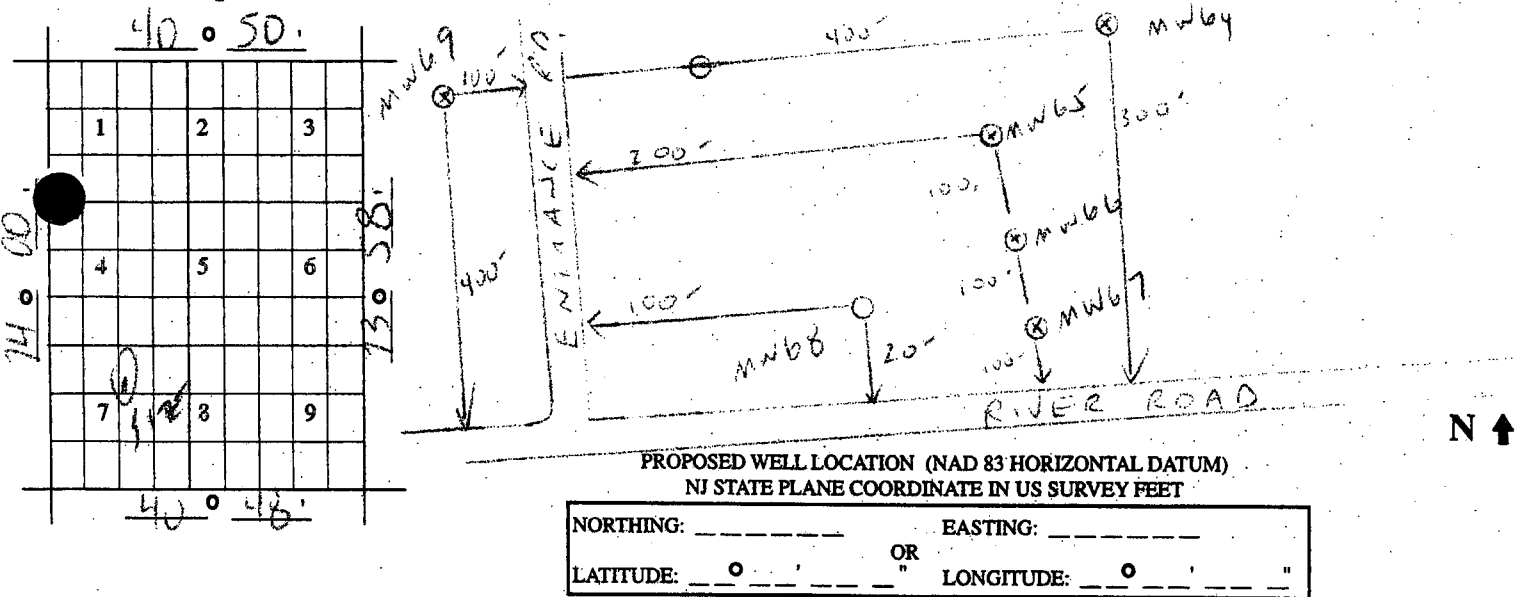
Diameter of Well(s) <u>2</u> Inches	Proposed Depth of Well(s) <u>20</u> Feet
# of Wells Applied for (max. 10) <u>6</u>	Will pumping equipment be utilized? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Type of Well (see reverse) <u>Monitor</u>	If Yes, give pump capacity _____ cumulative GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
<u>1</u>	<u>96-100</u>	<u>Edgewater</u>	<u>Bergen</u>

State Atlas Map No. 26

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Spill Site
- ☐ Underground Storage Tank Site
- ☒ ISRA Site
- ☐ Operational Ground Water Permit Site
- ☐ CERCLA (Superfund) Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____

CASE I.D. Number

E20040267

This Space for Approval Only

WELL PERMIT APPROVED
NJ D.E.P.

MAY 17 2007

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

☐ Issuance of this permit is subject to the conditions attached. (see next page). ☒ For monitoring purposes only

P. USE ☐

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 5-15-07 Signature of Driller Matthew Jacob Registration No. 51577

Signature of Property Owner William Hays (W. Hays)

COPIES: Water Allocation - White Health Dept - Yellow Owner - Blue Driller - White

MONITORING WELL RECORD

OWNER IDENTIFICATION I PARK EDGEWATER

Add 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-64

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-5-07

DATE WELL COMPLETED 6-5-07

WELL CONSTRUCTION

Total Depth Drilled 17 ft.

Finished Well Depth 17 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Stem protective casing installed?

☐ ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using WLT

Well was developed for 1/2 hours

at 2 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeffrey Segraves

Driller's Signature Jeffrey Segraves

Registration No. 516991 Date 6/5/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>10</u>)	<u>2</u>	<u>17</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>17</u>	<u>8</u>	<u>#1 Sand</u>	
Grout	<u>0</u>	<u>1</u>	<u>8</u>	<u>Neat Cement Bentonite</u>	<u>20</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-10 Fill CMF-Silty
Black sand + gravel

10-15 Black EMF Sand
+ gravel

15-17 - Peete

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

MONITORING WELL RECORD

Atlas Sheet Coordinates
2614273

OWNER IDENTIFICATION I PARK EDGEWATER

Address 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-65

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6/6/07

DATE WELL COMPLETED 6/6/07

WELL CONSTRUCTION

Total Depth Drilled 14 ft.

Finished Well Depth 14 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface 0 ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4 ft.

Water Level was Measured Using WLI

Well was developed for 12 hours

at 2 gpm

Method of development Sub

Pump Capacity - gpm

Pump Type -

Drilling Fluid - Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeffrey Segraves

Driller's Signature Jeffrey Segraves

Registration No. 5D16991 Date 6/6/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.10</u>)	<u>2</u>	<u>14</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>14</u>	<u>8</u>	<u>#1 Sand</u>	
Grout	<u>0</u>	<u>1</u>	<u>8</u>	Neat Cement Bentonite	<u>15</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-10 Blackish gray CME
sands + gravel

10-14 same for organics
and gray clay at 14'

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ____ ° ____ ' ____ " LONGITUDE: ____ ° ____ ' ____ "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION I PARK EDGEWATER

Add 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-666

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-6-07

DATE WELL COMPLETED 6-6-07

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Step protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4 ft.

Water Level was Measured Using WLI

Well was developed for 12 hours

at 2 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeffrey Segraves

Driller's Signature Jeffrey Segraves

Registration No. 316991 Date 6/6/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch. no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>10</u>)	<u>2</u>	<u>15</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>15</u>	<u>8</u>	<u>#1 Sand</u>	
Grout	<u>0</u>	<u>1</u>	<u>8</u>	<u>Neat Cement Bentonite</u>	<u>15</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method HSR

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-10 Blackish Gray CMF
sands and gravel

10-15 Same to organics
gray clay at 15'

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ____ ° ____ ' ____ " LONGITUDE: ____ ° ____ ' ____ "

MONITORING WELL RECORD

OWNER IDENTIFICATION I PARK EDGEWATER

Address 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-67

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-5-07

DATE WELL COMPLETED 6-5-07

WELL CONSTRUCTION

Total Depth Drilled 12 ft.

Finished Well Depth 12 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Step protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4 ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Geoprobe 6600

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Matthew Raab

Driller's Signature Matthew Raab

Registration No. 516991 Date 6/5/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>10</u>)	<u>2</u>	<u>12</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>12</u>		<u>#2 Sand</u>	
Grout	<u>0</u>	<u>1</u>		Neat Cement Bentonite	<u>94</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-11 Black + gray Silty
Sand w/ Fill (Clay, etc.)
wood, etc.

11-12 Meadows Mat

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

MONITORING WELL RECORD

OWNER IDENTIFICATION I PARK EDGEWATER

Add 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-168

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-6-07

DATE WELL COMPLETED 6-6-07

WELL CONSTRUCTION

Total Depth Drilled 12 ft.

Finished Well Depth 12 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade

☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Step protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4 ft.

Water Level was Measured Using WLI

Well was developed for 1/2 hours

at 2 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig B-57

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeffrey Segraves

Driller's Signature Jeffrey Segraves

Registration No. 346991 Date 6/6/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs./sq. ft.)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.10</u>)	2	12	2	PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	12	8"	#1 Sand	
Grout	0	1	8"	Neat Cement Bentonite	15 lbs 5 lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-10 Reddish Brown CMF
sand & gravel

10-12 Same to organics
and gray clay @ 12'

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: " LONGITUDE: "

MONITORING WELL RECORD

OWNER IDENTIFICATION I PARK EDGEWATER

Address 485 WEST PUTNAM AVE

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-69

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6/5/07

DATE WELL COMPLETED 6/6/07

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface 1 ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using WLI

Well was developed for 12 hours

at 2 gpm

Method of development Sub

Pump Capacity 1 gpm

Pump Type 1

Drilling Fluid 1 Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeffrey Segraves

Driller's Signature [Signature]

Registration No. 516991 Date 6/6/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole of Screen (No. Used 10)	2	15	2	PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	15	8	#1 Sand	
Grout	0	1	8	Neat Cement Bentonite	20 lbs 5 lbs

Grouting Method Tremie

Drilling Method HSA

GEOLOGIC LOG
Note each depth where water was encountered in consolidated formations
0-10 Fill Black CME Silty Sand
10-15 CME Silty Sand to pebbles

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: EASTING:
OR
LATITUDE: 0' 0" LONGITUDE: 0' 0"

MONITORING WELL RECORD

OWNER IDENTIFICATION I-PARK EDGEWATER, LLC

Address 485 WEST PUTNAM AVE.

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-70

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-7-07

DATE WELL COMPLETED 6-7-07

WELL CONSTRUCTION

Total Depth Drilled 15' ft.

Finished Well Depth 15' ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

St. protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4' ft.

Water Level was Measured Using WLI

Well was developed for 1 1/2 hours

at 2 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeff Segraves

Driller's Signature [Signature]

Registration No. 516991 Date 6/8/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch. no.)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.10</u>)	2	15	2	PVC	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1	15	8	#1 Sand	
Grout	0	1	8	Neat Cement Bentonite	<u>10</u> lbs <u>5</u> lbs

Grouting Method Placed

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-10' Fill CMF Brownish Black Silty sand gravel

10-15' Same to gray clay + organics

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ___ ° ___ ' ___ " LONGITUDE: ___ ° ___ ' ___ "

MONITORING WELL RECORD

OWNER IDENTIFICATION I-PARK EDGEWATER, LLC

Address 485 WEST PUTNAM AVE.

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-71

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-7-07

DATE WELL COMPLETED 6-7-07

WELL CONSTRUCTION

Total Depth Drilled 24 ft.

Finished Well Depth 24 ft.

Borehole Diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Stretcher protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 4 ft.

Water Level was Measured Using WLT

Well was developed for 1 1/2 hours

at 2 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig B-59

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Jeff Segraves

Driller's Signature Jeff Segraves

Registration No. J16991 Date 6/8/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>10</u>)	<u>2</u>	<u>24</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>24</u>	<u>8</u>	<u>#1 Sand</u>	
Grout	<u>0</u>	<u>1</u>	<u>8</u>	Neat Cement Bentonite	<u>10</u> lbs <u>5</u> lbs

Grouting Method Placed

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-10' Fill, CMF Brownish
Clay sand, gravel
10-20' Same, CMF, Brownish
Black, sands, gravel
20-24' grey Clay, organic.

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: — ° — ' — " LONGITUDE: — ° — ' — "

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Mail To:

MONITORING WELL PERMIT

Permit No. 2600083816

BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 26 .14 .273

Owner I - Park Edgewater, LLC

Driller

SUMMIT DRILLING CO., INC.

Address 485 West Putnam Ave

Address

9W Chimney Rock Road
Bound Brook, NJ 08805

Name of Facility Former Unlevers Facility

Diameter of Well(s)	<u>2</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells	<u>5</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Applied for (max. 10)	<u>5</u>		If Yes, give pump capacity	<u> </u>	cumulative GPM
Type of Well (see reverse)	<u>Monitor</u>				

Address 45 River Rd

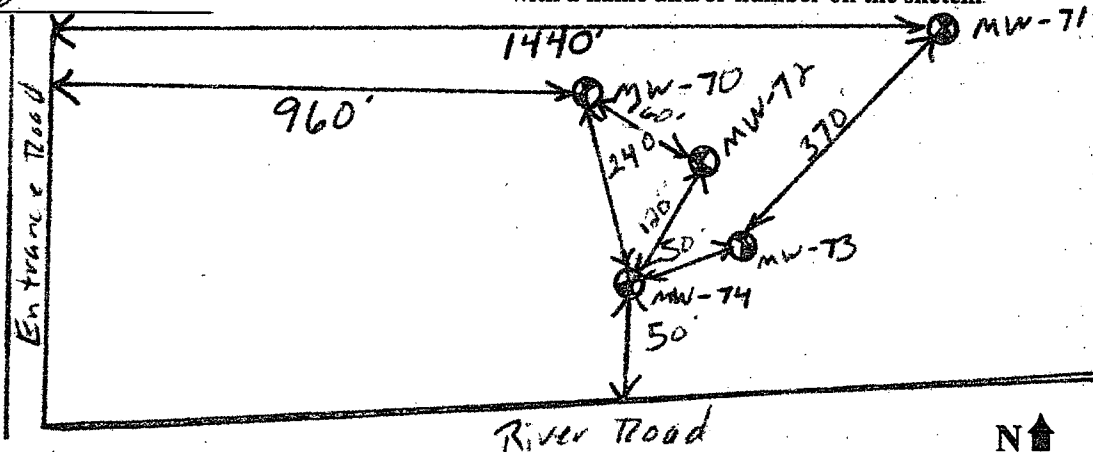
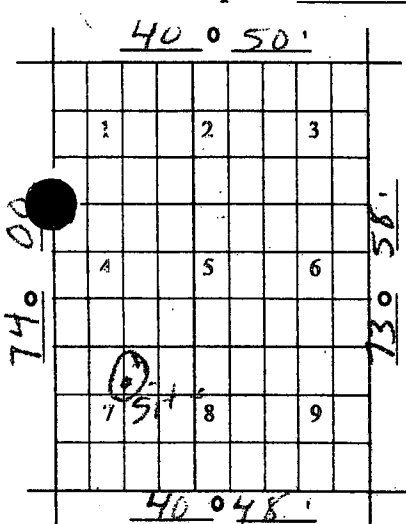
Edgewater NJ 07020

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
<u>1</u>	<u>96-100</u>	<u>Edgewater</u>	<u>Bergen</u>

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

State Atlas Map No. 26



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____	EASTING: _____
LATITUDE: _____	LONGITUDE: _____

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- | | |
|---|--|
| <input type="checkbox"/> RCRA Site | <input type="checkbox"/> Spill Site |
| <input type="checkbox"/> Underground Storage Tank Site | <input checked="" type="checkbox"/> ISRA Site |
| <input type="checkbox"/> Operational Ground Water Permit Site | <input type="checkbox"/> CERCLA (Superfund) Site |
| <input type="checkbox"/> Pretreatment and Residuals Site | |
| <input type="checkbox"/> Water and Hazardous Waste Enforcement Case | |
| <input type="checkbox"/> Water Supply Aquifer Test Observation Well | |
| <input type="checkbox"/> Other (explain) _____ | |

CASE I.D. Number

E 20040267

WELL PERMIT APPROVED N.J. D.E.P. JUN 12 2007 BUREAU OF WATER SYSTEMS & WELL PERMITTING
--

☐ Issuance of this permit is subject to the conditions attached. (see next page) ☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 06/05/07

Signature of Driller

Matthew Raab

Registration No. _____

Signature of Property Owner

Meredith Hoyer (for I Park) CD

COPIES: Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

MONITORING WELL RECORD

OWNER IDENTIFICATION I-PARK EDGEWATER, LLC

Address 485 WEST PUTNAM AVE.

City Greenwich State Connecticut Zip Code 06830

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-72

County Bergen Municipality Edgewater Boro Lot No. 1 Block No. 96-100

Address 45 RIVER ROAD FORMER UNILEVER FACILITY

WELL USE Monitoring

DATE WELL STARTED 6-8-07

DATE WELL COMPLETED 6-8-07

WELL CONSTRUCTION

Total Depth Drilled 15 ft.

Finished Well Depth 15 ft.

Borehole Diameter:

Top 6 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height
(stick up) above land surface — ft.

Steel protective casing installed?

☐ Yes ☒ No

Static Water Level after drilling 3 ft.

Water Level was Measured Using H-SCOPE

Well was developed for 1 hours

at 3 gpm

Method of development Sub

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hydraulic 1000

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in
accordance with all well permit requirements and applicable State
rules and regulations.

Drilling Company SUMMIT DRILLING CO INC

Well Driller (Print) Joseph Neri

Driller's Signature [Signature]

Registration No. MW24437 Date 6/8/07

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch. no.)
Single/Inner Casing	<u>0</u>	<u>2</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>10</u>)	<u>2</u>	<u>15</u>	<u>2</u>	<u>PVC</u>	<u>40</u>
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	<u>1</u>	<u>15</u>		<u>Mom</u>	<u>700 lbs</u>
Grout	<u>0</u>	<u>1</u>		<u>Neat Cement Bentonite</u>	<u>94 lbs 5 lbs</u>

Grouting Method Gravity

Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated
formations

0-15' black c/sand +
gravel.

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ LONGITUDE: _____

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-51A

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'27.4" Latitude: North 40°48'14.5"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718216 East 633042

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 7.12'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

7/24/07
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-52 A

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 24.8" Latitude: North 40° 48' 14.7"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718233 East 633242

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 7.57'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

7/24/07
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-53 A

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 23.7" Latitude: North 40° 48' 13.9"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718155 East 633331

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

6.20'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929) : CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W T
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

7/24/02
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): _____

G2A-107

MW-54

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'32.7" Latitude: North 40°48'10.7"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717829

East 632634

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

7.36'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

11/29/06
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-55

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'31.1" Latitude: North 40°48'13.4"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718098 East 632760

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 6.92'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): _____

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'31.2" Latitude: North 40°48'12.9"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718051 East 632754

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

7.611'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): _____

G2A-129
MW-57

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'29.7" Latitude: North 40°48'12.2"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717974

East 632867

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

8.72'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

GZA-117

Owners Well Number (As shown on application or plans):

MW-58

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'32.0"

Latitude: North 40°48'12.8"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718035

East 632693

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

8.26'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

GZA-138

Owners Well Number (As shown on application or plans): _____

MW-59

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'28.0"

Latitude: North 40°48'13.3"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718086

East 632998

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

7.44'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-60

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'31.8" Latitude: North 40°48'05.5"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717300 East 632708

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 8.50'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-61

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'34.6" Latitude: North 40°48'03.6"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717107 East 632495

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 13.00'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929) : CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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2/21/07
DATE

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(Please print or type)

132 E. CLINTON ST. CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-62

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 35.4" Latitude: North 40° 48' 08.8"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717628 East 632432

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

8.24'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-63

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'33.5" Latitude: North 40°48'10.2"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717769 East 632578

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

8.76'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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2/21/07
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PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-64

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 32.7" Latitude: North 40° 48' 11.9"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717950 East 632638

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):

7.98'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NAVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

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Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-65

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'34.2" Latitude: North 40°48'13.4"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718093 East 632522

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 8.95'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-66

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'35.4" Latitude: North 40°48'13.7"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718124 East 632429

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.28'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-67

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'35.9" Latitude: North 40°48'13.7"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718131 East 632393

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

9.36'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929) : CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-68

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 34.9" Latitude: North 40° 48' 14.9"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718252 East 632465

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 8.85'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-69

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'30.6" Latitude: North 40°48'15.0"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 718261 East 632806

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

6.48'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

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132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-70

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73° 59' 32.6" Latitude: North 40° 48' 10.2"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717778 East 632645

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 9.62'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

7/24/07
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

132 E. CLINTON ST. CLAYTON, NJ 08312 (856) 881-8677

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: _____

Name of Facility: NATIONAL RE/SOURCES

Location: 45 RIVER ROAD, EDGEWATER, NJ

Case Number(s): _____ (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-71

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 73°59'33.3" Latitude: North 40°48'03.8"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 717126 East 632595

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): _____

12.53'

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

SANITARY MANHOLE RIM EL. = 10.00' (NGVD 1929): CONVERTED TO

Significant observations and notes: NAVD 1988 EL. = 8.95'

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

W. T.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

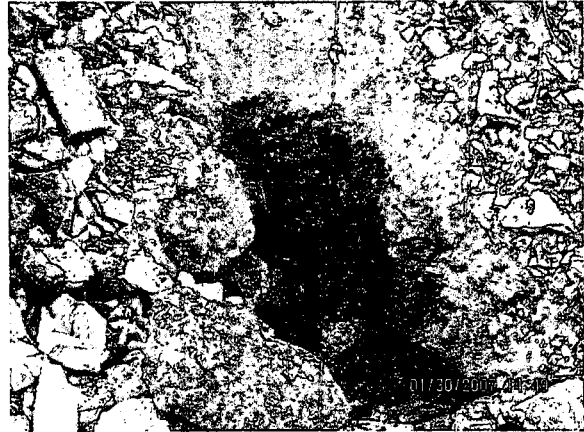
7/24/02
DATE

WAYNE W. BURGESS 4531654
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

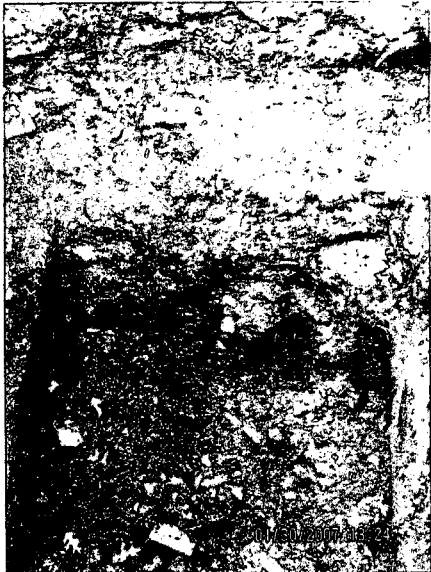
132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477



Test pit located in rip-rap embankment on the southern portion of the Site.



Top down view.



Western sidewall of test pit.



Western sidewall of test pit.



View looking northwest.

known to occur in carbonate-hosted mineralized zones. It may be stabilized by high concentrations of trace elements because the original type material contained up to 3% Bi.

Many other arsenic-containing minerals are known and have some thermochemical measurements but they are beyond the scope of this paper.

3.2 pe-pH diagrams for arsenic

The tabulated thermodynamic data can be used to develop the pe-pH diagrams for arsenic, shown in Figures 2 and 3, that summarize the predominance fields for aqueous species and the mineral stability fields, respectively. These diagrams also help to focus the discussion on environmentally relevant geochemical processes.

The predominance area diagram of Figure 2 shows that, under oxidizing conditions, arsenate hydrolyzes to four possible species for the range of pH encountered in surface and ground waters, although the fully dissociated arsenate ion would be rare because very few waters reach a pH greater than 11.5. Under reducing conditions, the fully protonated arsenite species is predominant over a wide range of pH and because it is not ionized and adsorbs less strongly than arsenate species, dissolved arsenite tends to be much more soluble than arsenate. Hence, reducing conditions usually lead to increased concentrations of arsenic in ground waters provided that arsenic is available in the aquifer or the sediments. Arsine, AsH_3 , was estimated to be at the same pe and pH conditions as the formation of hydrogen, i.e. the lower limits for water. Hence, it does not show on this diagram.

Figure 3 shows the sequence of stable minerals from fully oxidized arsenic pentoxide to fully reduced native arsenic in the presence of 10^{-4} m total dissolved sulfide. Native arsenic has a narrow stability field only under the strongest reducing conditions, consistent with field observations except that in the field it seems to form at higher temperatures than 25°C . No mineral corresponds with As(V) oxide because it is extremely soluble (about 40 grams per 100 grams of solution, Menzies and Potter, 1912) and the addition of the type of divalent cations commonly found in surface and ground waters would promote the precipitation of metal arsenates that are less soluble than the pentoxide (e.g. calcium arsenate precipitation, Nishimura and Robins, Dunning, 1988; Nishimura and Robins, 1998).

The stability field for orpiment occurs between realgar and claudetite and the stability field for realgar is barely visible at all in contrast to other diagrams such as that found in Brookins (1986). The relative stability field for realgar can change significantly with small changes in free energy for either (or both) orpiment and realgar and further refinement of the data

1. Arsenic thermodynamic data and environmental geochemistry

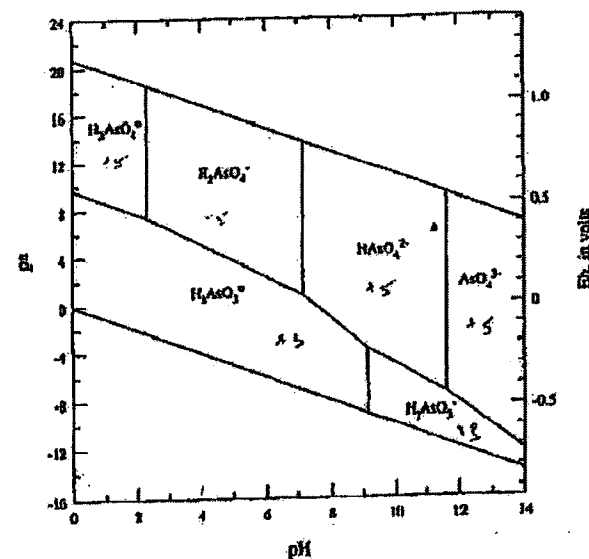


Figure 2. pe-pH diagram for predominant aqueous species of arsenic at equilibrium and 298.15 K and 1 atmosphere pressure.

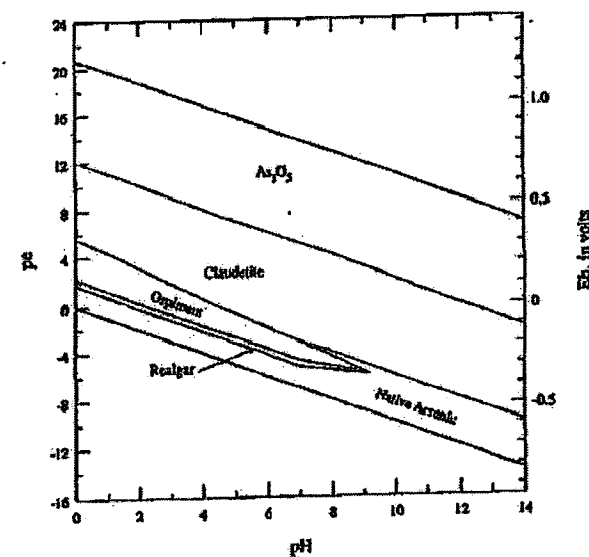


Figure 3. pe-pH diagram for equilibrium mineral stabilities in the As-O-S-H₂O system at 298.15 K and 1 atmosphere pressure. Total dissolved sulfur = 10^{-4} m .

45 River Road
Edgewater, New Jersey

SEDIMENT PHOTOGRAPHS
Project No. 41.0161318.00

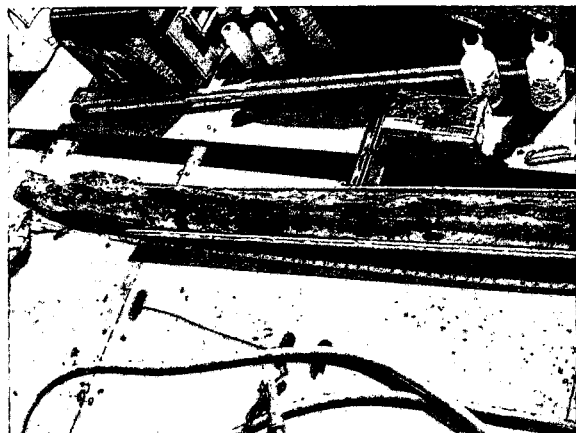
Taken on 8/1/07 and 8/2/07



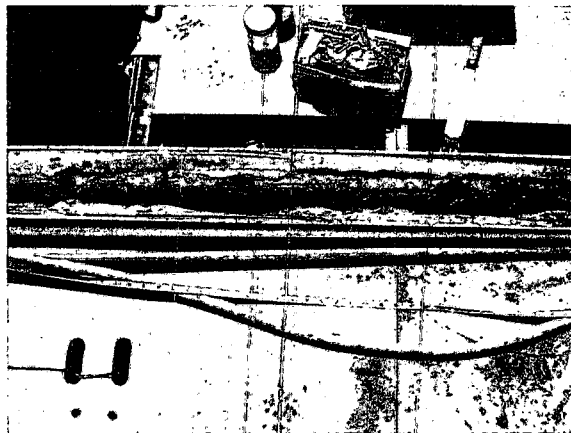
SED-17



SED-21



SED-17



SED-21



SED-19



SED-24

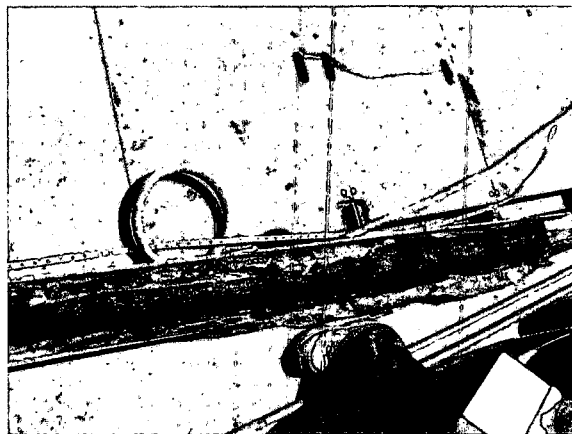
SEDIMENT PHOTOGRAPHS
Project No. 41.0161318.00

45 River Road
Edgewater, New Jersey

Taken on 8/1/07 and 8/2/07



SED-25



SED-26

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 02/16/07
SPLP Date: 2/14/07

1312/8270C Semi Volatile SPLP Compounds

Analyte	Results	Units	MRL	SPLP Limit	DF	Analyzed
1,1-Biphenyl	ND	mg/L	0.05		1	02/19/07
1,2,4-Trichlorobenzene	ND	mg/L	0.05		1	02/19/07
1,2-Dichlorobenzene	ND	mg/L	0.05		1	02/19/07
1,3-Dichlorobenzene	ND	mg/L	0.05		1	02/19/07
1,4-Dichlorobenzene	ND	mg/L	0.05		1	02/19/07
2,3,4,6-Tetrachlorophenol	ND	mg/L	0.25		1	02/19/07
2,4,5-Trichlorophenol	ND	mg/L	0.05		1	02/19/07
2,4,6-Trichlorophenol	ND	mg/L	0.05		1	02/19/07
2,4-Dichlorophenol	ND	mg/L	0.05		1	02/19/07
2,4-Dimethylphenol	ND	mg/L	0.25		1	02/19/07
2,4-Dinitrophenol	ND	mg/L	0.25		1	02/19/07
2,4-Dinitrotoluene	ND	mg/L	0.05		1	02/19/07
2,6-Dinitrotoluene	ND	mg/L	0.05		1	02/19/07
2-Chloronaphthalene	ND	mg/L	0.05		1	02/19/07
2-Chlorophenol	ND	mg/L	0.05		1	02/19/07
2-Methylnaphthalene	0.38	mg/L	0.05		1	02/19/07
2-Methylphenol	0.17	mg/L	0.05		1	02/19/07
2-Nitroaniline	ND	mg/L	0.05		1	02/19/07
2-Nitrophenol	ND	mg/L	0.05		1	02/19/07
3,3'-Dichlorobenzidine	ND	mg/L	0.10		1	02/19/07
3+4-Methylphenol	0.41	mg/L	0.10		1	02/19/07
3-Nitroaniline	ND	mg/L	0.05		1	02/19/07
4,6-Dinitro-2-Methylphenol	ND	mg/L	0.25		1	02/19/07
4-Bromophenyl-phenylether	ND	mg/L	0.05		1	02/19/07
4-Chloro-3-Methylphenol	ND	mg/L	0.05		1	02/19/07
4-Chloroaniline	ND	mg/L	0.10		1	02/19/07
4-Chloro-phenyl-phenyl ether	ND	mg/L	0.05		1	02/19/07
4-Nitroaniline	ND	mg/L	0.05		1	02/19/07
4-Nitrophenol	ND	mg/L	0.25		1	02/19/07
Acenaphthene	0.15	mg/L	0.05		1	02/19/07
Acenaphthylene	ND	mg/L	0.05		1	02/19/07
Acetophenone	ND	mg/L	0.05		1	02/19/07
Aniline	ND	mg/L	0.05		1	02/19/07
Anthracene	0.05	mg/L	0.05		1	02/19/07
Azobenzene	ND	mg/L	0.10		1	02/19/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 02/16/07
SPLP Date: 2/14/07

1312/8270C Semi Volatile SPLP Compounds

Benzo(a)anthracene	ND	mg/L	0.05	1	02/19/07
Benzo(a)pyrene	ND	mg/L	0.05	1	02/19/07
Benzo(b)fluoranthene	ND	mg/L	0.05	1	02/19/07
Benzo(g,h,i)perylene	ND	mg/L	0.05	1	02/19/07
Benzo(k)fluoranthene	ND	mg/L	0.05	1	02/19/07
Benzoic Acid	ND	mg/L	0.50	1	02/19/07
Benzyl Alcohol	ND	mg/L	0.05	1	02/19/07
bis(2-Chloroethoxy)methane	ND	mg/L	0.05	1	02/19/07
bis(2-Chloroethyl)ether	ND	mg/L	0.05	1	02/19/07
bis(2-chloroisopropyl)Ether	ND	mg/L	0.05	1	02/19/07
bis(2-Ethylhexyl)phthalate	ND	mg/L	0.03	1	02/19/07
Diethylbenzylphthalate	ND	mg/L	0.05	1	02/19/07
Carbazole	0.35	mg/L	0.05	1	02/19/07
Chrysene	ND	mg/L	0.05	1	02/19/07
Dibenzo(a,h)Anthracene	ND	mg/L	0.05	1	02/19/07
Dibenzofuran	0.12	mg/L	0.05	1	02/19/07
Diethylphthalate	ND	mg/L	0.05	1	02/19/07
Dimethylphthalate	ND	mg/L	0.05	1	02/19/07
Di-n-butylphthalate	ND	mg/L	0.05	1	02/19/07
Di-n-octylphthalate	ND	mg/L	0.05	1	02/19/07
Fluoranthene	ND	mg/L	0.05	1	02/19/07
Fluorene	0.13	mg/L	0.05	1	02/19/07
Hexachlorobenzene	ND	mg/L	0.05	1	02/19/07
Hexachlorobutadiene	ND	mg/L	0.05	1	02/19/07
Hexachlorocyclopentadiene	ND	mg/L	0.25	1	02/19/07
Hexachloroethane	ND	mg/L	0.02	1	02/19/07
Indeno(1,2,3-cd)Pyrene	ND	mg/L	0.05	1	02/19/07
Isophorone	ND	mg/L	0.05	1	02/19/07
Naphthalene	2.03	mg/L	0.05	1	02/19/07
Nitrobenzene	ND	mg/L	0.05	1	02/19/07
N-Nitrosodimethylamine	ND	mg/L	0.05	1	02/19/07
N-Nitroso-Di-n-Propylamine	ND	mg/L	0.05	1	02/19/07
N-nitrosodiphenylamine	ND	mg/L	0.10	1	02/19/07
2,4-Dichlorophenol	ND	mg/L	0.02	1	02/19/07
Benanthrene	0.13	mg/L	0.05	1	02/19/07
Phenol	0.10	mg/L	0.05	1	02/19/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 02/16/07
SPLP Date: 2/14/07

1312/8270C Semi Volatile SPLP Compounds

Pyrene	ND	mg/L	0.05	1	02/19/07
Pyridine	ND	mg/L	0.50	1	02/19/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	43 %		30-130
Surrogate: 2,4,6-Tribromophenol	52 %		15-110
Surrogate: 2-Chlorophenol-d4	47 %		15-110
Surrogate: 2-Fluorobiphenyl	56 %		30-130
Surrogate: 2-Fluorophenol	39 %		15-110
Surrogate: Nitrobenzene-d5	88 %		30-130
Surrogate: Phenol-d6	39 %		15-110
Surrogate: p-Terphenyl-d14	65 %		30-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil

SPLP Date: 2/14/07

1312/6000/7000 SPLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>SPLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	0.003	mg/L	0.002	1312/7041		1	SVD	02/20/07	100	50
Arsenic	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	100	50
Barium	0.065	mg/L	0.025	1312/6010B		1	SVD	02/15/07	100	50
Beryllium	ND	mg/L	0.0005	1312/6010B		1	SVD	02/15/07	100	50
Cadmium	ND	mg/L	0.002	1312/6010B		1	SVD	02/15/07	100	50
Chromium	0.02	mg/L	0.01	1312/6010B		1	SVD	02/15/07	100	50
Copper	0.02	mg/L	0.01	1312/6010B		1	SVD	02/15/07	100	50
Lead	ND	mg/L	0.002	1312/7421		1	SVD	02/16/07	100	50
Mercury	ND	mg/L	0.0005	1312/7470A		1	EEM	02/15/07	20	40
Nickel	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	100	50
Selenium	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	100	50
Silver	ND	mg/L	0.002	1312/6010B		1	SVD	02/15/07	100	50
Thallium	ND	mg/L	0.0010	1312/7841		1	SVD	02/19/07	100	50
Zinc	ND	mg/L	0.025	1312/6010B		1	SVD	02/15/07	100	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: MD

SPLP Date: 2/19/07

1312/8260B Volatile SPLP Compounds

Analyte	Results	Units	MRL	SPLP Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/L	0.100		100	02/20/07
1,1,1-Trichloroethane	ND	mg/L	0.100		100	02/20/07
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0500		100	02/20/07
1,1,2-Trichloroethane	ND	mg/L	0.100		100	02/20/07
1,1-Dichloroethane	ND	mg/L	0.100		100	02/20/07
1,1-Dichloroethene	ND	mg/L	0.100		100	02/20/07
1,1-Dichloropropene	ND	mg/L	0.200		100	02/20/07
1,2,3-Trichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,2,3-Trichloropropane	ND	mg/L	0.100		100	02/20/07
1,2,4-Trichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,2,4-Trimethylbenzene	ND	mg/L	0.100		100	02/20/07
1,2-Dibromo-3-Chloropropane	ND	mg/L	0.500		100	02/20/07
1,2-Dibromoethane	ND	mg/L	0.100		100	02/20/07
1,2-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,2-Dichloroethane	ND	mg/L	0.100		100	02/20/07
1,2-Dichloropropane	ND	mg/L	0.100		100	02/20/07
1,3,5-Trimethylbenzene	ND	mg/L	0.100		100	02/20/07
1,3-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,3-Dichloropropane	ND	mg/L	0.100		100	02/20/07
1,4-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,4-Dioxane - Screen	ND	mg/L	50.0		100	02/20/07
1-Chlorohexane	ND	mg/L	0.100		100	02/20/07
2,2-Dichloropropane	ND	mg/L	0.100		100	02/20/07
2-Butanone	ND	mg/L	2.50		100	02/20/07
2-Chlorotoluene	ND	mg/L	0.100		100	02/20/07
2-Hexanone	ND	mg/L	1.00		100	02/20/07
4-Chlorotoluene	ND	mg/L	0.100		100	02/20/07
4-Isopropyltoluene	ND	mg/L	0.100		100	02/20/07
4-Methyl-2-Pentanone	ND	mg/L	2.50		100	02/20/07
Acetone	ND	mg/L	2.50		100	02/20/07
Benzene	ND	mg/L	0.100		100	02/20/07
Bromobenzene	ND	mg/L	0.200		100	02/20/07
Bromochloromethane	ND	mg/L	0.100		100	02/20/07
Bromodichloromethane	ND	mg/L	0.100		100	02/20/07
Bromoform	ND	mg/L	0.100		100	02/20/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: MD

SPLP Date: 2/19/07

1312/8260B Volatile SPLP Compounds

Bromomethane	ND	mg/L	0.200	100	02/20/07
Carbon Disulfide	ND	mg/L	0.100	100	02/20/07
Carbon Tetrachloride	ND	mg/L	0.100	100	02/20/07
Chlorobenzene	ND	mg/L	0.100	100	02/20/07
Chloroethane	ND	mg/L	0.200	100	02/20/07
Chloroform	ND	mg/L	0.100	100	02/20/07
Chloromethane	ND	mg/L	0.200	100	02/20/07
cis-1,2-Dichloroethene	ND	mg/L	0.100	100	02/20/07
cis-1,3-Dichloropropene	ND	mg/L	0.0500	100	02/20/07
Dibromochloromethane	ND	mg/L	0.100	100	02/20/07
Dibromomethane	ND	mg/L	0.100	100	02/20/07
Dichlorodifluoromethane	ND	mg/L	0.200	100	02/20/07
Diethyl Ether	ND	mg/L	0.100	100	02/20/07
Di-isopropyl ether	ND	mg/L	0.100	100	02/20/07
Ethyl tertiary-butyl ether	ND	mg/L	0.100	100	02/20/07
Ethylbenzene	ND	mg/L	0.100	100	02/20/07
Hexachlorobutadiene	ND	mg/L	0.0600	100	02/20/07
Isopropylbenzene	ND	mg/L	0.100	100	02/20/07
Methyl tert-Butyl Ether	ND	mg/L	0.100	100	02/20/07
Methylene Chloride	ND	mg/L	0.500	100	02/20/07
Naphthalene	6.69	mg/L	0.100	100	02/20/07
n-Butylbenzene	ND	mg/L	0.100	100	02/20/07
n-Propylbenzene	ND	mg/L	0.100	100	02/20/07
sec-Butylbenzene	ND	mg/L	0.100	100	02/20/07
Styrene	ND	mg/L	0.100	100	02/20/07
tert-Butylbenzene	ND	mg/L	0.100	100	02/20/07
Tertiary-amyl methyl ether	ND	mg/L	0.100	100	02/20/07
Tetrachloroethene	ND	mg/L	0.100	100	02/20/07
Tetrahydrofuran	ND	mg/L	0.500	100	02/20/07
Toluene	ND	mg/L	0.100	100	02/20/07
trans-1,2-Dichloroethene	ND	mg/L	0.100	100	02/20/07
trans-1,3-Dichloropropene	ND	mg/L	0.0500	100	02/20/07
Trichloroethene	ND	mg/L	0.100	100	02/20/07
Trichlorofluoromethane	ND	mg/L	0.200	100	02/20/07
Tri-n-Propyl Acetate	ND	mg/L	0.500	100	02/20/07
Vinyl Chloride	ND	mg/L	0.100	100	02/20/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek
Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up
Date Sampled: 02/12/07 12:00
Percent Solids: N/A
Initial Volume: 10
Final Volume: 10
Extraction Method: 5030B

ESS Laboratory Work Order: 0702161
ESS Laboratory Sample ID: 0702161-01
Sample Matrix: Soil
Analyst: MD
SPLP Date: 2/19/07

1312/8260B Volatile SPLP Compounds

Xylene O	ND	mg/L	0.100	100	02/20/07
Xylene P,M	ND	mg/L	0.200	100	02/20/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	92 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	92 %		70-130
Surrogate: Toluene-d8	93 %		70-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ

ESS Laboratory Work Order: 0702161

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
+	Outside QC Limits.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
-	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
3	Range result excludes concentrations of target analytes eluting in that range.
Avg	Range result excludes the concentration of the C9-C10 aromatic range.
NR	Results reported as a mathematical average.
¶	No Recovery
	The state of RI does not grant certification for this method for non-potables.



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shins, Jr.
Commissioner

November 10, 1998

Russ Sattler COO
United Retek of New Jersey 612
River Street
Suite 102-103
Hoboken, NJ 07030

Re: United Retek of New Jersey IET Certification 98-001

Dear Mr. Sattler:

Enclosed is the New Jersey Department of Environmental Protection's Innovative Environmental Technology Certification of the regulatory determination based on the validation of your technology through the New Jersey Corporation for Advanced Technologies (NJCAT) Verification program. I wanted to congratulate you on being the first New Jersey company through this process. The NJCAT Verification validated the performance claims of the Retek process to stabilize and recycle soils contaminated with petroleum hydrocarbon for reuse on-site as subbase paving and curbing materials and for stabilization of lead on-site for the boundary conditions of the soils and contaminants defined in the NJCAT technology verification report. This Certification validates the regulatory determination.

Increasing the use of innovative environmental technologies that have a net benefit effect and that can assist the Department in improving our state's overall environmental quality face a two prong barrier to their commercialization and deployment. One is that investors and user of the environmental technology may not have access to third party validated data of the performance and the potential successes of the technology. The other is that investors or vendors of the environmental technology face a fragmented market place represented by 50 individual state approval programs. The NJCAT verification and NJDEP certification can in part, address these barriers.

The verification of an innovative environmental technology by a third party entity is of itself a valuable document. It can provide a high degree of confidence to a private sector developer who is seeking to invest in or install and use new environmental technology that can go beyond compliance with regulatory permits or standards. The uniqueness of the NJCAT verification is its direct connection to a regulatory determination. The NJCAT verification validates the Retek process as a categorical exemption for beneficial use. This means that no further case-by-case site specific beneficial use determination or approval is required as defined in the NJDEP Guidance Document for the Remediation of Contaminated Soils, 1998. The NJCAT verification addresses one part of the

barrier to deployment of new environmental technology, increased access to valid third party evaluation data. The verification of an environmental technology should assist in increasing investment in and use of innovative environmental technologies that can improve New Jersey's environmental quality indicators as established in the NJDEP Strategic Plan. However, the key to completing our response to barrier to deployment of new environmental technologies needs to be linked to a regulatory determination. That regulatory link needs to be connected to interstate reciprocity of the acceptance of that technology.

The other part of the equation to response to the barriers to deployment of cleaner technologies is interstate reciprocity for technology and regulatory acceptance. This means that the environmental and operational data and the overall performance of the Retek process, as verified by NJCAT and the regulatory determination, as certified by the NJDEP of the verified Retek process is accessible and useable to other states as outlined in the Six-state MOU Pilot Project Strategies Report. This will interconnect environmental technology and regulatory acceptance in a way that we, state environmental agencies, can now respond to the real or perceived barriers to environmental technology deployment.

Again congratulations on your success and I am sure that the NJCAT will continue to provide appropriate assistance through a broad array of market applications in partnership with the Department. One market assistance that is immediately available to the NJCAT verified Retek process is through the Brownfield and Contaminated Sites Remediation Act NJSA 58:10B-6a. This Act can provide matching funding through the Hazardous Discharge Site Remediation Fund for up to 50% or \$200,000 of the project cost to perform the remedial action certified by NJDEP.

Sincerely,



Robert C. Shinn
Commissioner

Enclosure

c: Rick Gimello, Assistant Commissioner, Site Remediation
Gary Sondermeyer, Assistant Commissioner, Environmental Regulations
Robert Tudor, Assistant Commissioner, Environmental Planning and Science
Rhea Brekke, Executive Director, NJCAT